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**TENDER NO. BHEL: NR(SCT):KOSTI-TPT:373**

**TENDER SPECIFICATIONS**

**FOR**

**“Materials Handling Works comprising of receiving & handling of plant materials and other equipments at Port of Sudan, transportation to Kosti site, its unloading, stacking & preservation at site for 4 x 125 MW Power Plant in Kosti, Sudan”**

**PART I – TECHNICAL BID**



**Bharat Heavy Electricals Limited**  
(A Govt. Of India Undertaking)  
**Power Sector – Northern Region,**  
Plot No. 25 , Sector - 16A ,  
Distt. Gautam Budh Nagar, NOIDA – 201 301 (INDIA)



ISO 9001-2000, ISO 14001  
and OHSAS 18001 certified  
company  
SubContract and Purchase  
Deptt.

**Bharat Heavy Electricals Limited**  
(A Govt. Of India Undertaking)  
**Power Sector – Northren Region,**  
Plot No. 25 , Sector - 16A ,  
Distt. Gautam Budh Nagar, NOIDA – 201 301.INDIA  
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## TENDER NO. BHEL: NR(SCT):KOSTI-TPT:373

### IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

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## TENDER NOTICE

Sealed tenders are invited from the contractors fulfilling qualifying requirements for the “**Materials Handling Works comprising of receiving & handling of plant materials and other equipments at Port of Sudan, transportation to Kosti site, its unloading, stacking & preservation at site for 4 x 125 MW Power Plant in Kosti, Sudan.**”

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### QUALIFYING REQUIREMENTS:

1. The tenderer should either be a Sudanese Company ‘OR’ an Indian Company.
2. In case of a Sudanese bidder, they should own ‘OR’ have a proper tie up for the major T&Ps to be deployed by them for the subject work. In case of a tie-up, the tenderer shall furnish proper documents related to the tie-up and an undertaking for his overall responsibility for execution of the total contract.
3. In case of an Indian bidder, they must have a tie-up with a Sudanese Company owning major T&Ps to be deployed for the subject work. The Indian bidder shall furnish documents related to the tie-up and an undertaking for his overall responsibility for execution of the total contract.
4. Tenderers who wish to participate should have executed during the last seven years at least one similar work of material transportation and handling.
5. The Tenderer should have a minimum average annual turnover of USD 3.20 Millions ‘OR’ INR 144 Millions (Indian Rupees One Hundred and Forty Four Millions) for the last three financial years 2003-04, 2004-05 and 2005-06. Turnover of the tenderer only and not of his tie-up partner, if any, shall be considered for meeting the requirement.
6. Bidders selection is subject to approval of BHEL’s customer M/S NEC

### NOTES:

- (i) The Tender Documents comprise of following;

- (a) General Conditions of Contract, Special Conditions of Contract, Tender Notice, Project Synopsis etc. – **82 Pages**  
 (b) Rate Schedule – **04 Pages**
- (ii) Tender Documents with complete details are hosted in this web page. Bidder(s) intending to participate may download the tender document from the web site. Bidder(s) downloading the tender documents from the web site, shall remit Rs.1000/- (Rupees One thousand only) in the form of crossed demand draft (non-refundable), in favour of BHEL, NOIDA along with their offer
- (iii) Bidder(s) can also purchase hard copy of tender documents from this office. Tender documents (non transferable) will be issued on all working days between 09.30 Hrs. to 12.30 Hrs within the sale period i.e **upto 02.01.2007** on payment of Rs.1,000/- (non-refundable) either in cash or by crossed demand draft in favor of BHEL, NOIDA. Request for issue of tender document should clearly indicate Tender No. and work.
- (iv) **Tenders must be submitted to the undersigned at BHEL Office, Camp Sudan latest by 02.01.2007** before opening of technical bids commences. **The exact address of BHEL office , Camp Sudan shall be given shortly on BHEL web page.** Technical bids shall **be opened at 15.30 Hrs. on 02.01.2007.**
- (v) **Earnest Money Deposit (EMD)** : Refundable, Non-interest bearing **EMD of Indian Rupees 2,00,000/- or US \$ 4500/- or Sudanese Dinar 930000/-** shall be deposited by Account Payee Pay Order 'OR' Demand Draft in favour of "Bharat Heavy Electricals Limited" payable at Delhi, INDIA. Those bidders who have already deposited ' One Time 'EMD' of Rs. 2,00,000/- with BHEL, PSNR, NOIDA need not submit EMD with the present tender.
- (vi) Tenders not accompanied with Full Earnest Money Deposit, as indicated above, will not be considered.
- (vii) All corrigenda, addenda, amendments and clarifications to this Tender will be hosted in this web page and not in the newspaper. Bidders shall keep themselves updated with all such amendments.
- (viii) BHEL reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
- (ix) BHEL takes no responsibility for any delay/loss of documents or correspondences sent by courier/post.
- (x) Purchase Preference will be given to CPSUs as per Govt. Guidelines.
- (xi) **Unsolicited rebate / discount shall not be accepted after bid opening**

AGM/SCP



ISO 9001-2000, ISO 14001  
and OHSAS 18001 certified  
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Sub-Contract and  
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### TENDER NOTICE- Newspaper

LAST DATE OF SALE : 02.01.2007  
DUE DATE : 02.01.2007  
DATE OF OPENING : 02.01.2007

NIT NO. / NAME OF WORK
<p style="text-align: center;"><b>TENDER NO. BHEL: NR(SCT):KOSTI-TPT:373</b></p> <p>Sealed tenders are invited from the contractors fulfilling qualifying requirements for the “Materials Handling Works comprising of receiving &amp; handling of plant materials and other equipments at Port of Sudan, transportation to Kosti site, its unloading, stacking &amp; preservation at site for 4 x 125 MW Power Plant in Kosti, Sudan.”</p>

### NOTES:

- Purchase Preference will be given to CPSU as per Indian Govt. Guidelines.
- The complete tender documents can be downloaded from BHEL Web Site, [www.bhel.com](http://www.bhel.com).
- Bidder(s) can also purchase hard copy of the tender documents from this office on payment of Rs.1,000/- (non-refundable) either in cash or by crossed demand draft in favour of BHEL, NOIDA.
- Earnest Money Deposit (EMD)** : Refundable, Non-interest bearing **EMD of Indian Rupees 2,00,000/- or US \$ 4500/- or Sudanese Dinar 930000** shall be deposited by Account Payee Pay Order 'OR' Demand Draft in favour of “Bharat Heavy Electricals Limited” payable at Delhi, INDIA. Those bidders who have already deposited 'One Time EMD' of Rs. 2,00,000/- with BHEL, PSNR, NOIDA need not submit EMD with the present tender.

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**PROCEDURE FOR SUBMISSION OF SEALED TENDERS:**

The tenderers must submit their tenders as required in two parts in separate sealed covers prominently superscribed as Part-I Technical bid and Part-II ,Price bid also indicating on each of the cover tender specification no., date and time as mentioned in tender notice.

**TECHNICAL BID (COVER-I)**

Except Price bid Part-II, complete set of tender document consisting of General conditions of Contract, “Technical specification & Special terms and condition” ( Part-I) issued by BHEL shall be enclosed in Part I Technical Bid only. All schedules, data sheets and details called for in the specification shall also be submitted along with technical bid. All details / Data / Schedules including offer letter duly signed and stamped are to be submitted in duplicate.

**PRICE BID (COVER-II)**

Tenderers may please note that price bid is to be submitted only in original copy of Tender i.e. Price bid (Part-II) issued by BHEL and no duplicate copy of same is required.

These Two separate covers i.e. cover I & II shall together be enclosed in a third envelope (Cover-III) and this sealed cover shall be superscribed with tender specification No., due date, time and submitted to officer inviting tender as indicated in tender notice on or before due date as indicated.

## **PROJECT SYNOPSIS**

Kosti Thermal Power Project to be constructed is a greenfield project with 4x125 MW Thermal units having gas/oil fired boilers & aux., steam turbine generators & aux., BFPs, switchyard etc. to be executed on EPC basis by BHEL at Sudan. The owner of the Project is National Electricity Corporation(NEC), Sudan, which is a Govt. of Sudan entity. The plant will supply electricity to South & West Sudan.

Kosti lies south of Khartoum (Capital of Sudan) on an Asphalt road with latitude 13.10 N and longitude 090.14E. The Kosti site is centrally located just 350 KM south of Khartoum. The river Nile is passing near by and the site has easy connectivity by road and rail.

Distance of project site from Port of Sudan (only port in Sudan) is 1200 km and the project site is about 600 Mtrs. from Highway.

### **Temperature Data:**

- (a) Maximum ambient temperature : 45 Deg C
- (b) Minimum ambient temperature : 16 Deg C

### **Mean(Design) annual humidity:**

- (a) Maximum 71% in August
- (b) Minimum 26% in April

### **Wind Data:**

- (a) Maximum speed of wind 11 Km/h
- (b) Wind direction is Southern ( May to September) and Northern in the rest of the year.

## SECTION- I

### GENERAL INSTRUCTIONS TO TENDERERS

- 1 This tender specification as a whole, furnishing all the details and other documents as required in the following pages, shall be duly signed and sent in a sealed cover (IN DUPLICATE) super-scribing the name of work as given in the tender notice.
- 2 The tender shall be addressed to : OFFICER INVITING TENDER AS INDICATED IN THE TENDER NOTICE.
3. Tenders submitted by post shall be sent as **"REGISTERED/ SPEED/ COURIER POST "** and shall be posted with due allowance for any postal delay. The tenders received after the due date and time of opening are liable to be rejected. Offers received by Telegram/telex/ Fax/ E-mail/ Internet may be considered as per terms of NIT.
- 4 Tenders shall be opened at the time and date as specified in the tender notice in the presence of such of those tenderers or their authorised representatives who may be present.
- 5 The tenderers shall closely peruse all the clauses, specifications and drawings indicated in the Tender Documents before quoting. Should the tenderer have any doubt about the meaning of any portion of the Tender Specifications or find discrepancies / omission in the Drawings or the tender documents issued are incomplete or shall require clarification on any of the technical aspect, scope of work etc., he shall atonce contact the authority inviting the tender for clarification before the submission of the tender.
- 6 Before tendering, the tenderers are advised to inspect the site of work and the environments and be acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later on grounds of lack of knowledge.
- 7 Tenderer must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification must be SIGNED, STAMPED AND SUBMITTED ALONG WITH THE OFFER by the Tenderer in token of complete acceptance thereof. The information furnished shall be complete by itself.
- 8 The tenderer shall quote the rates in English Language and international numerals. These rates shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER OF THE TWO will be treated as valid rate. For the purpose of tender, the metric system of units shall be used.
- 9 All entries in the tender shall either be typed or be written in ink. Erasure and over writings are not permitted and may render such tenders liable to summary rejection. All cancellations and insertions shall be duly attested by the tenderer.
- 10 **QUALIFICATIONS OF TENDERERS :** Only tenderers who have previous experience in the work of this nature and description detailed in this tender specification are expected to quote for this work. Offers from tenderers who do not have proven and established experience in the field are not likely to be considered.

- 11 **DATA TO BE ENCLOSED** : Full information shall be given by the tenderer in respect of the following. Non submission of these information may lead to rejection of the offer.
- 11.1 **FINANCIAL STATUS** : Financial viability as per proforma enclosed at *ANNEXURE-`A`*
- 11.2 **INCOME TAX CERTIFICATES** : A Certificate of Income tax clearance from the appropriate authority in the forms prescribed therefor duly indicating annual turnover. These certificates shall be valid for one year from the date of issue or for the period prescribed therein for all tenders submitted during the period.
- 11.3 **PREVIOUS EXPERIENCE** : A statement giving particulars (duly supported by documentary evidence) of the various service rendered in progress for each similar works by the tenderer indicating the particulars and value of each work, the site location, the duration, date of completion etc., strictly as per proforma enclosed at *ANNEXURE-B*.
- 11.4 **ORGANISATION CHART** : The organisation pattern that are totally available with him and that will be employed by the tenderer for this work in the form of monthwise and categorywise deployment plan duly indicating the number of Engineers, Supervisors, skilled and unskilled workers etc., as per proforma enclosed at *ANNEXURE-`C`*.
- 11.5 An attested copy of the **Power of Attorney**, in case the tender is signed by an individual other than the sole Proprietor, shall also be attached.
- 11.6 **IN CASE OF AN INDIVIDUAL** : His full name, experience, address and nature of business.
- OR
- IN CASE OF PARTNERSHIP FIRMS** : The names of all the partners with addresses and their experience. A copy of the partnership deed/ instrument of Partnership duly certified by a Notary Public shall be enclosed.
- OR
- IN CASE OF COMPANIES** : Date and place of registration including date of commencement certificate in case of public companies and the nature of business carried or by the Company. Certified copies of memorandum and Articles of Association are also to be furnished. Also indicate names, addresses and experience of the Directors.
- 11.7 A list of tools and tackles (including cranes, tractor-trailers, winches, Derricks, welding sets etc., wherever applicable) that the tenderer is having and those that will be deployed on this job as per proforma enclosed at *ANNEXURE-`D`*.
- 11.8 Analysis of unit rate quoted as per proforma enclosed at *ANNEXURE-`E`*.
- 11.9 Declaration sheet as per proforma enclosed at *ANNEXURE-`F`*.
- 11.10 In addition to the above, the particulars required elsewhere in tender documents.
- 11.11 Checklist and schedule of general particulars duly filled in, signed and stamped as per *ANNEXURE-`G`*.

NOTE : In terms of clauses 11.1 to 11.11 above, all the data required to be enclosed with the tender need to be furnished neatly typed, signed and stamped in the given formats only (in the form of separate sheets ) failing which the tender may be considered as incomplete and is liable for rejection. Documentary proofs wherever necessary also need to be enclosed.

- 12 **EARNEST MONEY DEPOSIT** : Every tender must be accompanied by the prescribed amount of Earnest Money Deposit in any one of the following forms.

NOTE : Bank Guarantee, Cheques, Currency Notes, Money Orders or Postal Orders will not be accepted.

- 12.1 **Cash( As permissible under Income Tax Act )** : The amount should be remitted by the party to the Cashier of Bharat Heavy Electricals Limited and cash receipt issued by him shall be enclosed alongwith the tender.

- 12.2 Pay Order or Demand Draft in favour of Bharat Heavy Electricals Limited, Noida.

- 12.3 Tenders received without Earnest Money in full in the manner prescribed above will not be considered.

- 12.4 The Earnest Money Deposit of the successful tenderer will be retained towards part of Security Deposit.

- 12.5 In the case of unsuccessful tenderers, the Earnest Money will be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.

- 12.6 BHEL reserves the right of **forfeiture of Earnest Money deposit** in case the successful tenderer,

(a). After opening of Tender, revokes his tender within the validity period or increases his earlier quoted rates.

(b) Does not commence the work within the period as per LOI/Contract. In case the LOI/Contract is silent in this regard then within 15 days after award of contract.

- 12.7 EMD shall not carry any interest.

- 12.8 Tenderers, who so ever desires, may deposit one time Earnest Money Deposit of Rs. 2,00,000/- in cash( **As permissible under Income Tax Act** ) /DD/pay order only with the cashier of BHEL. Tenderers who furnish one time EMD as above, will not be required to furnish EMD time and again alongwith their tenders submitted to BHEL/ PSNR. However they will be required to indicate the cash receipt No. and date of one time EMD in all their tenders.

- 13 **AUTHORISATION AND ATTESTATION** : Tenders shall be signed by persons duly authorised / empowered to do so. Certified copies of such authority and relevant documents shall be submitted alongwith the tenders.

- 14 **VALIDITY OF OFFER** : *THE OFFER SHALL BE KEPT OPEN FOR ACCEPTANCE FOR A MINIMUM PERIOD OF SIX MONTHS FROM THE DATE OF OPENING OF TENDERS.* In case Bharat Heavy Electricals Limited calls for negotiations, such negotiations

shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

15 **EXECUTION OF CONTRACT** :The successful tenderer's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful tenderer shall be required to execute an agreement in the prescribed form as per *ANNEXURE-'I'* with the BHEL within a reasonable time after the acceptance of his tender and in any case before submitting the first bill for payment.

16 **SECURITY DEPOSIT** : Upon acceptance of tender, the successful tenderer must deposit the required amount of security deposit within the time specified in the Letter of Intent for satisfactory completion of work.

16.1 The total amount of Security Deposit shall be as follows :

- (a) In case of work costing upto 10 lakhs : 10% of the contract value.
- (b). In case of work costing above Rs 10 lakhs and upto Rs 50 lakhs : 1 Lakh + 7.5 % of the amount exceeding Rs. 10 Lakhs.
- (c). In case of work costing more than Rs 50 lakhs : 4 Lakhs + 5 % of the amount exceeding Rs. 50 Lakhs.

16.2 The Security Deposit will be deposited within 15 days from the date of issue of Letter of Intent but before start of work in any one of the following forms :-

- (a). The total Security Deposit as indicated in the Letter of Intent in **cash** ( As permissible under Income Tax Act).
- (b) Pay Order, Demand Draft in favour of BHEL.
- c) Local cheques of scheduled banks, subject to realization.
- d) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
- e) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.
- f) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.
- g) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- h) EMD of the successful tenderer shall be converted and adjusted against the security deposit.

16.3 The security deposit shall not carry any interest.

**NOTE:** Acceptance of Security Deposit against Sl. No. (d) and (f) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

- 16.4 Security deposit shall not be refunded to the contractor except in accordance with the terms of the contract.
- 16.5 The validity of the Bank Guarantee furnished towards Security Deposit under (e) above shall be upto the period of completion of work as stipulated in the Letter of Intent + 1 month and the same will be kept valid by proper renewal till the satisfactory completion of the Guarantee Period.
- 16.6 If the value of the work done at any time exceeds the accepted agreement value, the Security Deposit shall be correspondingly enhanced and the extra Security Deposit shall be immediately deposited by the Contractor or recovered from payments due to him.
- 16.7 Failure to deposit the Security Deposit within the stipulated time, may lead to forfeiture of Earnest Money Deposit and Cancellation of the award of work.
- 16.8 If any part of Security Deposit of the Contractor is held in the form of approved securities, it shall be kept transferred in the name of Bharat Heavy Electricals Limited, in such a manner that the same can be realised fully without referring to the Contractor. BHEL shall not be responsible for any depreciation in the value of the Security while in BHEL's custody or for any loss of interest thereon.
- 16.9 BHEL reserves the right of **forfeiture of Security Deposit** in addition to other claims and penalties in the event of the contractor's failure to fulfil any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract. BHEL reserves the right to set off the Security Deposit, against any claims of any other contracts with BHEL.
- 16.10 **RETURN OF SECURITY DEPOSIT** : If the contractor fully performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "**No Demand Certificate**" in the prescribed form and returns properties belonging to BHEL taken, borrowed or hired by him for carrying out the said works, half the amount of Security Deposit will be released to the contractor after deducting all costs, expenses and other amounts that are to be paid to BHEL under this or other contracts entered into with the Contractor. It may be noted that in no case the Security Deposit shall be refunded / released prior to passing of final bill. Balance half of the amount of Security Deposit will be released only after the Guarantee Period is over.

**NOTE : All the BGs are to be submitted as per BHEL/PSNR performa.**

- 17 **No interest** shall be payable by BHEL on Earnest Money Deposit, Security Deposit or on any moneys due to the contractor.
- 18 **REJECTION OF TENDER AND OTHER CONDITIONS :**
- 18.1 The acceptance of Tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever.
- (a) To reject any or all of the tenders.
- (b) To split up the work amongst two or more Tenderers.

- ( c) To award the work in part.
- (d) In either of the contingencies stated in (b) and (c) above to modify the time for completion suitably.
- 18.2 Conditional and un-witnessed tenders, tenders containing absurd or unworkable rates and amounts, tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions, specifications, etc., are liable to be rejected.
- 18.3 If a tenderer expires after the submission of his tender or after the acceptance of his tender, BHEL may at its discretion, cancel such tender. If a partner of a firm expires after the submission of the tender or after the acceptance of the tender, BHEL may cancel such tender at its discretion unless the firm retains its character.
- 18.4 BHEL will not be bound by any Power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. BHEL may, however, recognise such Power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- 18.5 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract, if awarded and forfeit the Earnest Money/ Security Deposit/ any other moneys due.
- 18.6 Canvassing in any form in connection with the tender is strictly prohibited and the tenders submitted by the contractor who resorts to canvassing are liable to be rejected.
- 18.7 Should a tenderer or contractor or in the case of a firm or Company of contractors/ one or more of its Partners/ share holders / Directors have a relation or relations employed in BHEL, the authority inviting tender shall be informed to the fact alongwith the offer, failing this BHEL may, at its sole discretion reject the tender or cancel the contract and forfeit the Earnest Money/ Security Deposit
- 18.8 The successful tender should not sub-contract the part or complete work detailed in the tender specification without written permission of BHEL. The tenderer is solely responsible to BHEL for the work awarded to him.
- 18.9 **NO DEVIATIONS** to the tender conditions will normally be accepted. however, if the tenderer insists for certain deviations to the conditions, financial implication thereof shall be loaded to the quoted price for evaluating the tenderer's offer.

## SECTION - II

### GENERAL TERMS AND CONDITIONS

- 19.0 The following terms and expressions shall have the meaning hereby assigned to them except where the context otherwise requires.
- 19.1 **BHEL** (or B.H.E.Ltd.) shall mean Bharat Heavy Electricals Limited, a Company registered under the Indian Companies Act, 1956, with its Registered Office at BHEL HOUSE, SIRI FORT, NEW DELHI-110049 or its authorised officers or its Engineer or

other employees authorised to deal with any matters with which these persons are concerned, on its behalf.

- 19.2 **'GENERAL MANAGER'** shall mean the Officer in Administrative charge of the contracting Unit of BHEL.
- 19.3 **'ENGINEER' or 'ENGINEER-IN-CHARGE'** shall mean Engineer deputed by BHEL. The terms includes Deputy General Manager, Construction Manager, Resident Manager, Site Engineer, Resident Engineer and Assistant Site Engineer of BHEL at the site as well as the officers in charge at Head Office.
- 19.4 **'SITE'** shall mean the place or places at which the plants/ equipment are to be erected and services are to be performed as per the specifications of this Tender.
- 19.5 **'CLIENTS OF BHEL' or 'CUSTOMER'** shall mean the project authorities to whom BHEL is supplying the equipment.
- 19.6 **'CONTRACTOR'** shall mean the individual, firm or company who enters into contract with BHEL and shall include their executors, administrators, successors and permitted assigns.
- 19.7 **'CONTRACT' or 'CONTRACT DOCUMENT'** shall mean and include the agreement, the work order, the accepted appendices of rates, Schedules of Quantities, if any, General Conditions of Contract, Special Conditions of Contract, Instructions to Tenderers, the drawings, the technical specifications, the special specifications, if any, the tender documents and the Letter of Intent/ Acceptance letter issued by BHEL. Any conditions or terms stipulated by the tenderer in the tender documents or subsequent letters shall not form part of the Contract unless specifically accepted in writing by BHEL in the Letter of Intent and incorporated in the Agreement.
- 19.8 **'GENERAL CONDITIONS OF CONTRACT'** shall mean the 'Instructions to Tenderers' and 'General Conditions of Contract' pertaining to the work detailed.
- 19.9 **'TENDER SPECIFICATIONS'** shall mean the Special Conditions, Technical Specifications, appendices, Site information and drawings pertaining to the work for which the tenderers are required to submit their offer. Individual Specifications Number will be assigned to each tender specifications.
- 19.10 **'TENDER DOCUMENTS'** shall mean the General Conditions of Contract (19.8) and Tender Specifications (19.9).
- 19.11 **'LETTER OF INTENT'** shall mean the intimation by a letter / telegram / telex / fax to the tenderer that the tender has been accepted in accordance with provisions contained in the letter. The responsibility of the contractor commences from the date of issue of this letter and all the terms and conditions of contract are applicable from this date.
- 19.12 **'COMPLETION TIME'** shall mean the period by date specified in the Letter of Intent or date mutually agreed upon for handing over the erected equipment/ plant which are found acceptable by the Engineer being of required standard and conforming to the specifications of the Contract.

- 19.13 **'PLANT'** shall mean and connote the entire assembly of the plant and equipment covered by the Contract.
- 19.14 **'EQUIPMENT'** shall mean all equipment, machineries, materials, structurals, electricals and other components of the plant covered by the Contract.
- 19.15 **'TESTS'** shall mean and include such test or tests to be carried out by the contractor as are prescribed in the Contract or considered necessary by BHEL in order to ascertain the quality, workmanship, performance and efficiency of the contracted work or part thereof.
- 19.16 **'APPROVED', 'DIRECTED' or 'INSTRUCTED'** shall mean approved, directed or instructed by BHEL.
- 19.17 **'WORK' or 'CONTRACT WORK'** shall mean and include supply of all categories of labour, specified consumables, tools and tackles required for complete and satisfactory site transportation, handling, stacking, storing, erecting, testing and commissioning of the equipment to the entire satisfaction of BHEL.
- 19.18 **'SINGULAR' and 'PLURAL'** etc. Words carrying singular number shall also include plural and vice versa where the context so requires. Words importing masculine gender shall be taken to include the feminine gender and words importing persons shall include any Company or Association or Body of Individuals, whether incorporated or not.
- 19.19 **'HEADINGS'** The headings in these General Conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or the contract.
- 19.20 **'MONTH'** shall mean calendar month.
- 19.21 **"WRITING"** shall include any manuscript, type written or printed statement under the signature or seal as the case may be.
- 20 **LAW GOVERNING THE CONTRACT AND COURT JURISDICTION:** The Contract shall be governed by the Law for the time being in force in the Republic of India. The Civil Court at Delhi/ New Delhi, having ordinary Original Civil Jurisdiction shall alone have exclusive jurisdiction in regard to all claims in respect of this Contract.
- 21 **ISSUE OF NOTICE** The Contractor shall furnish to the Engineer, the name, designation and address of his authorised agent and all complaints, notices, communications and references shall be deemed to have been duly given to the Contractor, if delivered to the Contractor or his authorised agent or left at or posted to the address either of the contractor or his authorised agent and shall be deemed to have been so given in the case of posting on the day on which they would have reached such address in the ordinary course of post or at which they were so delivered or left.
- 22 **USE OF LAND** No land belonging to BHEL or its customer under temporary possession of BHEL shall be occupied by the Contractor without the written permission of BHEL.
- 23 **COMMENCEMENT AND COMPLETION OF WORK**

- 23.1 The contractor shall commence the work within the time indicated in the Letter of Intent and shall proceed with the same with due expedition without delay.
- 23.2 If the successful tenderer fails to commence the work within the stipulated time, BHEL, at its sole discretion, will have the right to cancel the contract. His Earnest Money and/ or Security Deposit will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.
- 23.3 All the works shall be carried out under the direction and to the satisfaction of BHEL.
- 23.4 The transported equipment, erected /constructed plant or work performed under the Contract, as the case may be, shall be taken over when it has been completed in all respects and/or satisfactorily put into operation at site.

## 24 MEASUREMENT OF WORK AND MODE OF PAYMENT

- 24.1 All payments due to the contractor shall be made by 'Account Payee' Cheques.
- 24.2 For progress/ running bill payments, the contractor shall present detailed measurement sheets in triplicate duly indicating all relevant details based on technical documents and connected drawings for the work done during the month/ period under different categories in line with terms of payment as per Letter of Intent. The basis of arriving at the quantities/ weights shall be the relevant documents and drawings released by BHEL. These measurement sheets shall be prepared jointly with Engineer and signed by both the parties.
- 24.3 These measurement sheets will be checked by the Engineer and quantities and percentages eligible for payment under different groups shall be decided by him. The abstract of quantities and percentages so arrived at based on the terms of payment shall be entered in the **Measurement Book and signed by both the parties.**
- 24.4 Based on the above quantities, contractor shall prepare the bills in the prescribed proforma and work out the financial value. These will be entered in the Measurement Book and signed by both the parties. Payment shall be made by BHEL after effecting the recoveries due from the contractor.
- 24.5 All recoveries due from the contractor for the month / period shall be effected in full from corresponding running bills unless specific approval from Competent authority is obtained to the contrary.
- 24.6 Measurement shall be restricted to that quantity for which it is required to ascertain the financial liability of BHEL under this contract.
- 24.7 Measurement shall be taken jointly by persons duly authorised by BHEL and the Contractor.
- 24.8 The Contractor shall bear the expenditure involved, if any, in making the measurements and testing of materials to be used/ used in the work. The Contractor shall, without extra cost to BHEL, provide all the assistance with appliances and other things necessary for measurement.

- 24.9 If, at any time due to any reason whatsoever, it becomes necessary to re-measure the work done, in full or in part, the expenses towards such remeasurement shall be borne by the Contractor.
- 24.10 *Passing of bills covered by such measurements does not amount to acceptance by BHEL of the completion of the work measured. Any left out work has to be completed by the Contractor, as directed.*
- 24.11 Final measurement bill shall be prepared in the proforma prescribed for the purpose, based on the certificate issued by the Engineer that the entire work as stipulated in the tender specifications has been completed in all respects to the entire satisfaction of BHEL. The Contractor shall give unqualified 'No Claim' and 'No Demand' certificates. All the tools and tackles loaned to him should be returned in condition satisfactory to BHEL. The abstract of final quantities and financial values shall also be entered in the Measurement Book and signed by both the parties. The final bill shall be paid within a reasonable time after completion of the work. After the payment of final bill, only the guarantee obligation percentage value shall remain unpaid which shall be released in accordance with clause 32.

## 25 RIGHTS OF BHEL

**BHEL** reserves to itself the following rights in respect of this contract without entitling the contractor to any compensation.

- 25.1 To get the work done through another agency at the risk and cost of the contractor, in the event of poor progress or the contractor's inability to progress the work for completion as stipulated in the contract, poor quality of work, persistent disregard of instructions of BHEL, assignment, transfer, subletting of the contracted work without written permission of BHEL, non-fulfillment of any contractual obligations etc. and to claim / recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from Security Deposit/ other dues.
- 25.2 To withdraw any portion of work and / or to restrict / alter quantum of work as indicated in the contract during the progress of work and get it done through another agency and/ or by the departmental labour to suit BHEL's commitments to its customer or in case BHEL decides to advance the completion due to other emergent reasons/ BHEL's obligation to its customer.
- 25.3 To terminate the contract after due notice and forfeit the Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of :
- (a) Contractor's continued poor progress.
  - (b) Withdrawal from or abandonment of the work before completion of the work.
  - (c) Corrupt act of the contractor.
  - (d) Insolvency of the contractor.
  - (e) Persistent disregard of the instructions of BHEL.

(f) Assignment, transfer, subletting of the contract work without BHEL's written permission.

(g) Non-fulfillment of any contractual obligations.

- 25.4 To recover any moneys due from the Contractor from out of any moneys due to the Contractor under this or any other Contract or from the Security Deposit.
- 25.5 To claim compensation for losses sustained including BHEL's supervision charges and overheads in case of termination of contract and to levy liquidated damages for delay in completion of work, at the rate of 1/2% of the contract value per week of delay or part thereof subject to a ceiling of **10% of the contract value.**
- 25.6 To determine the Contract or to restrict the quantum of work and pay for the portion of work done in case BHEL's contract with its customer is terminated for any reason.
- 25.7 To effect recoveries from any amounts due to the contractor under this or any other contract or in any other form the moneys which BHEL is forced to pay to anybody due to contractor's failure to fulfil any of his obligations.
- 25.8 To restrict or increase the quantity and nature of work to suit site requirements, since the tender specification is based on preliminary documents and quantities furnished therein are indicative and approximate and the rates quoted shall not be subject to revision.
- 25.9 To deploy BHEL's skilled and semiskilled workmen in case of emergency / poor progress/ deficiency in skill on the part of the employees of the contractor and to recover the expenditure on account of the same from the moneys due to the contractor.
- 25.10 While every endeavor will be made by BHEL to this end, BHEL can not guarantee uninterrupted work due to conditions beyond its control. The Contractor will not be entitled to any compensation/ extra payment on this account.
- 25.11 In the event of any dispute of technical nature, the decision of BHEL shall be final and binding on the Contractor.

## **26 RESPONSIBILITIES OF CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS, ETC.**

The following are the responsibilities of the Contractor in respect of observance of local laws, employment of personnel, payment of taxes etc.:

- 26.1 As far as possible, unskilled workers shall be engaged from the local areas in which the work is being executed.
- 26.2 The contractor at all times during the continuance of this contract, shall in all his dealings with the local labour for the time being employed on or in connection with the work, have due regard to all local festivals, religious and other customs.
- 26.3 The Contractor shall comply with all State and Central Laws, Statutory Rules, Regulations, etc., such as The payment of wages Act, The Minimum Wages Act, The workmen's Compensation Act, The Employer's Liability Act, The industrial Disputes Act, The

Employees' Provident Fund Act, Employees' State Insurance Scheme, the Contract Labour (Regulations and Abolition Act, 1970) and other Acts, Rules and Regulations for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at site. The contractor shall give to the local Governing Body, Police and other concerned Authorities all such notice as may be required under law.

- 26.4 The Contractor, in the event of his engaging 20 or more workmen, will obtain independent license under the Contract Labour (Regulations and Abolition Act, 1970) from the concerned authorities based on the certificate (Form-V) issued by the principal employer/ customer.
- 26.5 The contractor shall pay all taxes, fees, license charges, deposits, duties, tolls, royalty, commissions or other charges which may be leviable on account of any of his operations connected with this contract. In case BHEL is forced to make any such payment, BHEL shall recover the same from the contractor either from moneys due to him or otherwise as deemed fit.
- 26.6 While BHEL will pay the **inspection fees of the Boiler/ Electrical** Inspectorate, all other arrangements for the periodical visits of Boiler/ Electrical Inspector to site, inspection certificates etc. will have to be made by the contractor at his cost. The contractor will also meet all expenses in connection with his welder's qualification/ requalification tests etc.
- 26.7 The contractor shall be responsible for the provision of health and sanitary arrangements more particularly described in the Contract Labour (Regulations and Abolition Act, 1970) and safety precautions as may be required for safe and satisfactory execution of the contract.
- 26.8 The contractor shall be responsible for proper accommodation including adequate medical facilities for the personnel employed by him.
- 26.9 The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.
- 26.10 The contractor shall ensure that no damage is caused to any person / property of other parties working at site. If any such damage is caused, it shall be the responsibility of the contractor to make good the losses and compensate them.
- 26.11 All the properties/ equipment/ components of BHEL/ its customer loaned with or without deposit, to the contractor shall remain the properties of BHEL/ its customer. The contractor shall use such properties for the purpose of execution of this contract. All such properties/ equipment/ components shall be taken to be in good condition unless notified to the contrary by the contractor within 48 hours. The contractor shall return them in good condition as and when required by BHEL/ its customer. In case of non-return, loss, damage, repairs etc., the cost thereof, as may be fixed by the Engineer, will be recovered from the contractor.
- 26.12 It shall not be obligatory on the part of BHEL to supply any tools and tackles or materials other than those specifically agreed to be given by BHEL. However, depending upon availability / possibility, BHEL/ its customer's equipment and other materials may be made available to the contractor on payment of hire charges as fixed by them, subject to the conditions laid down by BHEL/ its customer from time to time. Unless paid in advance, such

hire and other charges shall be recovered from out of dues to the contractor or security deposit in one installment.

- 26.13 The contractor shall fully indemnify and keep indemnified BHEL/ its customer against all claims of whatever nature arising during the course of execution of this contract.
- 26.14 In case the contractor is required to undertake any work outside the scope of this contract, the amount payable shall be as may be mutually agreed upon.
- 26.15 Any delay in completion of works or non-achievement of periodical targets, due to reasons attributable to the contractor, will have to be compensated by the contractor either by increased manpower and resources or by working extra hours or more than one shift at no extra cost to BHEL.
- 26.16 The contractor shall execute the work under the conditions usual to such power plant construction and in conjunction with numerous other operations at site. The contractor and his personnel shall cooperate and coordinate with other agencies at project site and proceed in a manner that shall help in the progress of work at site as a whole.
- 26.17 The contractor will be directly responsible for payment of wages to his workmen. A pay-roll sheet giving details of all payments made to the workmen duly signed by the contractor's representative should be furnished to BHEL, if called for.
- 26.18 In case of any class of work for which there is no specification laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.
- 26.19 No levy, payment or charges made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied, demanded or charged.
- 26.20 ***No idle labour charges will be admissible in the event of any stoppage of work resulting in the contractor's workmen being rendered idle due to any reason at any time.***
- 26.21 The contractor shall take all reasonable care to protect the materials and the work till such time the plant / equipment has been taken over by BHEL / its customer.
- 26.22 Contractor shall not stop work or abandon the site for whatsoever reason or dispute, excepting for force majeure conditions. All problems / disputes shall be separately discussed and settled without effecting the progress of work. Stoppage or abandonment of work, other than under force majeure conditions, shall be treated as breach of work of contract and dealt with accordingly.
- 26.23 The contractor shall keep the area of work clean and shall remove the debris etc. while executing day-to-day work. Upon completion of work, the contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places specified by the Engineer. The contractor will also demolish all the hutments, sheds, offices, etc. constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be done by the Engineer and the expenses recovered from the contractor.

- 26.24 The contractor shall execute the work in the most substantial and workman like manner in the stipulated time. Accuracy of work and timely execution shall be the essence of this contract. The contractor shall be responsible to ensure that the quality, assembly and workmanship conform to the dimensions and clearance given in the drawings and/ or as per the instructions of the Engineer.
- 26.25 The contractor shall furnish fortnightly labour deployment report indicating the classification and number of workmen engaged, date wise and category wise. Besides, the contractor shall also furnish progress reports on work at regular intervals as required by the Engineer.

**27 RESPONSIBILITIES OF CONTRACTOR IN RESPECT OF SAFETY OF MEN, EQUIPMENT, MATERIAL AND ENVIRONMENT.**

- 27.1 All safety rules and codes applied by BHEL and its customer at site shall be observed by the contractor and his workmen without exception. The contractor shall be responsible for the safety of the equipment / material and work to be performed by him and shall maintain all lights, fencing guards, signs etc. or other protections necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer, with a view to prevent pilferage, accidents, fire hazards etc. Suitable number of clerical staff, watch and ward, store keepers to take care of equipment, materials, construction tools and tackles shall be posted at site by the contractor till the completion of the work under this contract. The contractor shall arrange for such safety devices as are necessary for this type of work and carry out the requisite site tests of handling equipment, lifting tools, tackles etc. as per usual standards and practices.
- 27.2 The contractor shall provide to it's work force and ensure the use of the following personal protective equipment as found necessary and as directed by the authorized BHEL officials.
- (a) Safety Helmets conforming to IS-2925
  - (b) Safety Belts conforming to IS-3521
  - (c) Safety shoes conforming to IS-1989
  - (d) Eye & Face Protection devices conforming to IS-8520 and IS-8940
  - (e) Hand & body protection devices conforming to IS-2573, IS-6994, IS-8807 & IS-8519.
- 27.3 All tools, tackles, lifting appliances, material handling equipment, scaffolds, cradles, safety nets, ladders, equipment etc. used by the contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained before putting them to use and from time to time as instructed by authorized BHEL official who shall have the right to ban the use of any item.
- 27.4 All electrical equipment, connections and wiring for construction power, it's distribution and use shall conform to the requirements of Indian Electricity Act and Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. All electrical appliances including portable electric tools used by contractor shall have safe plugging system to source of power and be appropriately earthed.

- 27.5 The contractor shall not use any hand lamp energised by electric power with supply voltage of more than 24 volts. For work in confined spaces, lighting shall be arranged with power source of not more than 24 volts.
- 27.6 Where it becomes necessary to provide and / or store petroleum products, explosives, chemicals and liquid or gaseous fuel or any other substance that may cause fire or explosion, the contractor shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulations laid down in the relevant Government Acts, such as Petroleum Act, Explosives Act, petroleum and Carbides of Calcium Manual of the Chief Controller of Explosives, Government of India etc. Prior approval of the authorised BHEL official at the site shall also be taken by the contractor in all such matters.
- 27.7 The contractor shall arrange at his cost (wherever not specified) appropriate illumination at all work spots for safe working, when natural daylight may not be adequate for clear visibility.
- 27.8 In case of a fatal or disabling injury / accident to any person at construction sites due to lapses by the contractor, the victim and / or his / her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL shall have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and / or his / her dependents. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.
- 27.9 In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover the cost of such damages from the payments due to the contractor after holding an appropriate enquiry.
- 27.10 In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have the right to recover cost of such delay from the payments due to the contractor, after notifying the contractor suitably and giving him opportunity to present his case.
- 27.11 If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given reasonable opportunity to do so and / or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorized BHEL official, BHEL shall have the right to take the corrective steps at the risk and cost of the contractor after giving a notice of not less than seven days indicating the steps that would be taken by BHEL.
- 27.12 The contractor shall submit report of all accidents, fires, property damage and dangerous occurrences to the authorized BHEL official immediately after such occurrence, but in any case not later than 12 hours of the occurrence. Such reports shall be furnished in the manner prescribed by BHEL. In addition, periodic reports on safety shall also be submitted by contractor to the authorized BHEL official from time to time as prescribed.
- 27.13 During the course of construction, alteration or repairs scrap lumbars with protruding nails, sharp edges etc., and all other debris including combustible scrap shall be kept cleared from working areas, passage ways and stairs in and around site.

- 27.14 Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be intentionally dropped, struck or permitted to strike each other violently. When cylinders are transported by powered vehicles, they shall be secured in a vertical position.
- 27.15 The contractor shall be responsible for the safe storage of his radioactive sources.
- 27.16 All the contractor's supervisory personnel and sufficient number of workers shall be trained for fire fighting and shall be assigned specific fire protection duties. Enough number of such trained personnel must be available during the tenure of the contract.
- 27.17 Contractor shall provide enough fire protecting equipment of the types and numbers at his office, stores, erection site, other temporary structures, labour colony area etc. Access to such fire protection equipment shall be easy and kept open at all times. Compliance of the above requirement under fire protection shall in no way relieve the contractor of any of his responsibility and liabilities to fire accident occurring. In the event fire safety measures are not to BHEL's satisfaction, BHEL shall have option to provide the same and recover the cost plus incidentals from contractor's bills and / or impose penalty as deemed fit by the Engineer.
- 27.18 Before commencing the work, the contractor shall appoint /nominate a responsible officer to supervise implementation of all safety measures and liaison with his counterpart of BHEL.
- 27.19 If safety record of the contractor in execution of the awarded job is to the satisfaction of Safety Department of BHEL, issue of an appropriate certificate to recognize the safety performance of the contractor may be considered by BHEL after completion of the job.

## **28.0 CONSEQUENCES OF CANCELLATION**

- 28.1 Whenever BHEL exercises its authority to terminate the contract / withdraw a portion of work under clause 25, the work may be got completed by any other means at the contractor's risk and cost provided that in the event of the cost of completion (as certified by the Engineer which shall be final and binding on the contractor) being less than the contract value, the advantage shall accrue to BHEL. If the cost of completion exceeds the moneys due to the contractor under the contract, the contractor shall either pay the excess amount demanded by BHEL or the same shall be recovered from the contractor. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per relevant clauses.
- 28.2 In case BHEL completes the work under the provisions of this clause, the cost of such completion to be taken into account for determining the excess cost to be charged to the contractor shall consist of cost of materials purchased and / or labour provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.

## **29.0 INSURANCE**

- 29.1 BHEL / its customer shall arrange for insuring the materials / property of BHEL / its customer covering the risks during transit, storage, erection and commissioning.

- 29.2 It shall be the sole responsibility of the contractor to insure his workmen against risks of accidents and injury while at work as required by the relevant Rules and to pay compensation, if any, to them as per Workmen's Compensation Act. The contractor shall also insure his staff against accidents. The work will be carried out in a protected area and all the Rules and Regulations of BHEL / its client in the Project Area which are in force from time to time will be followed by the contractor.
- 29.3 If due to negligence and/or non-observance of safety and other precautions, any accident / injury occurs to any other persons/ public, the contractor shall pay necessary compensation and other expenses, if so decided by the appropriate authority.
- 29.4 The contractor will take necessary precautions and due care to protect the material, while in his custody from any damage/ loss till the same is taken over by BHEL or customer. For lodging / processing of insurance claim the tractor will submit necessary documents. BHEL will reserve the right to recover the loss from the contractor, in case the damage / loss is due to carelessness / negligence on the part of the contractor. In case of any theft of material under contractor's custody, matter shall be reported to police by the contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to BHEL for taking up with insurance.
- 29.5 If due to negligence/ carelessness on the part of the contractor, any material/ equipment gets damaged, the contractor shall submit necessary documents for lodging insurance claims as required by BHEL Engineer. BHEL shall however reserves the right to recover deductible franchise and also unsettled portion of insurance claim amount from the contractor.
- 29.6 If due to negligence/ carelessness on the part of the contractor, any surrounding properties also gets damaged, the contractor shall submit necessary documents for lodging insurance claims as required by BHEL Engineer. BHEL shall however reserves the right to recover deductible franchise and to unsettled portion of insurance claim amount from the contractor.
- 29.7 The contractor may note that BHEL T&Ps / IMTEs are not insured. The Contractor will take necessary precautions and due care to protect the same while in his custody from any damage/ loss till the same is handed over back to BHEL. In case the damage / loss is due to carelessness/ negligence on the part of the contractor, the Contractor is liable to get them repair/ replaced immediately and in case of his failure to do so within a reasonable time, BHEL will reserve the right to recover the loss from the contractor.

### **30.0 STRIKES AND LOCKOUTS**

- 30.1 The contractor will be solely responsible for all disputes and other issues connected with his workmen. In the event of contractor's workmen resorting to strike or the contractor resorting to lockout and if the strike or lockout so declared is not settled within a period of one month, BHEL shall have the right to get the erection work executed by employing its own men or through other agencies or both. The cost incurred by BHEL in this regard shall be recovered from the contractor.
- 30.2 For any purpose whatsoever, the employees of the contractor shall not be deemed to be in the employment of BHEL

### **31.0 FORCE MAJEURE**

- 31.1 The following shall amount to force majeure conditions. Acts of God, Act of any Government, War, Sabotage, Riots, Civil Commotion, Police Action, Revolution, Flood, Fire, Cyclone, Earthquake and Epidemic and other similar causes over which the contractor has no control.
- 31.2 If the contractor suffers delay in the due execution of the contract, due to delays caused by force majeure conditions, as defined above, the agreed time for completion of the work covered by this contract shall be extended by a period of time equal to the period of delay, provided that on the occurrence of any such contingency, the contractor immediately reports to BHEL in writing the causes for the delay but the Contractor shall not be eligible for any compensation on this account.
- 32.0 **GUARANTEE** Even though the work will be carried out under the supervision of the Engineer, the contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of twelve months from the date of completion of work as certified by the Engineer, and shall rectify, free of cost to BHEL, all defects arising out of faulty erection during the guarantee period starting from the date of completion of rectification. In the event of the contractor failing to repair the defective works within the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the contractor's risk and cost, without prejudice to any other rights and recover the same from out of any moneys payable to the contractor or by other legal means.
- 33.0 **ARBITRATION** : All disputes between the parties to the contract arising out of or in relation to the contract, other than those for which the decision of the Engineer or any other person is by the contract expressed to be final and conclusive, shall after written notice by either party to the contract to the other party, be referred to sole arbitration of the General Manager or his nominee. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Reconciliation Act, 1996. The parties to the contract understand and agree that it will be no objection that the General Manager or the person nominated as Arbitrator had earlier in his official capacity to deal directly or indirectly with the matters to which the contract relates or that in the course of his official duties had expressed views on all or any of the matters in dispute or difference. The award of the Arbitrator shall be final and binding on the parties to this contract. In the event of the Arbitrator dying, neglecting or refusing to act or resigning or being unable to act for any reason or his award being set aside by the Court for any reason, it shall be lawful for the General Manager or his successor, as the case may be, either to act himself as the Arbitrator or to appoint another Arbitrator in place of the outgoing Arbitrator in the manner aforesaid. The Arbitrator may, from time to time, with the consent of both the parties to the contract, enlarge the time for making the award. Work under the contract shall be continued during the arbitration proceedings. The venue of the arbitration shall be the place from which the contract is issued or such other place as the Arbitrator at his discretion may determine.

--X--X--

ANNEXURE-A

**FINANCIAL VIABILITY**

1. Owner's capital in the business (incase of Partnership, please mention percentage shares and amounts).
2. Quantum of business done during last three financial years.
  - i) Rs.
  - ii) Rs.
  - iii) Rs.
3. Value of fixed Assets of the business in last three years.
  - i) Rs.
  - ii) Rs.
  - iii) Rs.
4. Guarantee limits (if any) enjoyed by the firm.
5. Over draft limits (if any enjoyed by the firm.
6. Please enclose audited profit and loss account and balance sheet for last 3 years (indicate no. of sheets).
7. Certificate from Scheduled Bank to prove Contractor's financial capacity to undertake the work duly indicating the financial limits the tenderer enjoys.

(Signature of tenderer)  
With Stamp

NOTE:

All the above documents should be duly certified by auditors/ Bank as may be applicable.

## ANNEXURE – B

**ANALYSIS OF SIMILAR JOBS EXECUTED / IN PROGRESS**

S.No.	Agency By whom Awarded	Location of project	Capacity & unit nos.	Scope of work and tonnage	Date of award	Contract value
1	2	3	4	5	6	7

%age work completed and due date for completion	Date of completion if job is already over	No. of skilled/ unskilled workers deployed at peak	No. of Engrs. & Super- visors deployed at peak	Details of major T&P like cranes, Tractor Trailors, Winches, welding M/cs supplied		Consumables by whom
				By Con- Tractor	By other Agency	
8	9	10	11	12	13	14

(SIGNATURE OF TENDERER)  
WITH STAMP

ANNEXURE – C

MONTHWISE MANPOWER DEPLOYMENT PLAN

S.No.	Category	No. of Person available on roll of the Orga- nasation	Month (Indicate No. of persons to be deployed in each month)						
			Ist	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	and so on
1.									
2.									
3.									
Total									

(SIGNATURE OF TENDERER)  
WITH STAMP

## ANNEXURE – D

**(A) STATUS OF TOOLS & PLANTS**

S.No.	Name of Equipment	Quantity owned	Registration no. wherever Applicable	Documents enclosed for proof of Ownership	Present Location	Quantity proposed to be deployed for this job
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**(B) MONTHWISE T&P DEPLOYMENT PLAN**

S.No.	Description of T & P	Month (Indicate No. to be deployed in each month)							
		Ist	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup> and so on

(SIGNATURE OF TENDERER)

WITH STAMP

## ANNEXURE - E

**ANALYSIS OF UNIT RATE QUOTED**

S.NO.	DESCRIPTION	PERCENTAGE OF THE UNIT RATE QUOTED	REMARKS
1.	Salary & wages for staff & workers		
2.	Consumables		
	(a) Gases		
	(b) Welding Electrodes		
	(c) P.O.L.		
	(d) Others		
3.	Depreciation & maintenance for T&P		
4.	Depreciation & Maintenance for other items		
5.	Establishment and Administration expenses of site		
6.	Overheads		
7.	Profit		

(SIGNATURE OF TENDERER)  
WITH STAMP

ANNEXURE - F

**DECLARATION SHEET**

I, -----hereby certify that, all the information and data furnished by me with regard to this Tender Specification No.----- are true and complete to the best of my knowledge. I have gone through the specification, conditions and stipulations in detail and agree to comply with the requirements and intent of specification.

I, further certify that I am the duly authorised representative of the under mentioned tenderer and a valid power of attorney to this effect is also enclosed.

Tenderer's Name & Address

Authorised representative's signature with name and address.

## ANNEXURE - 'G'

**CHECKLIST AND SCHEDULE OF GENERAL PARTICULARS**

NOTE : Tenderers are requested to fill in the following details and no column should be left blank

1. Name and address of the tenderer
2. Telegraphic/ telex address
3. Phone No. (Office)/ Fax No.
4. Name & designation of the official of the tenderer to whom all the references shall be made.
5. Tenderer's proposal No. & date
6. Whether EMD submitted (By cash/Pay order / bank draft) by.....
7. Validity of offer/ rates quoted for six months from the date of opening of tender Yes/No
8. Financial Status as per Clause 11.1 (in the format as per Annexure-A) Yes/No
9. Income tax Clearance certificate as per Clause 11.2 Yes/No
10. Details of experience as per clause 11.3 (in the format as per Annexure-B) Yes/No
11. Monthwise & Categorywise manpower deployment plan as per Clause 11.4 (in the format as per Annexure-C) Yes/No
12. Attested copy of power of attorney as per clause 11.5 Yes/No
13. Details about type of the firm as per clause 11.6 Yes/No
14. Status of T&P and monthwise deployment plan as per clause 11.7 (in the format as per Annexure-D) Yes/No
15. Analysis of unit rate quoted as per Clause 11.8 (in the format as per Annexure-E) Yes/No

16. Declaration sheet as per clause 11. 09  
(in the format as per Annexure-F)

Yes/No

Date \_\_\_\_\_

(SIGNATURE OF TENDERER)  
WITH STAMP

WITNESS  
(SIGNATURES WITH FULL PARTICULARS)

1.

2.

**BANK GUARANTEE FOR SECURITY DEPOSIT**

B.G. NO.

Date

This deed of Guarantee made this ----- day of -----two thousand by -----  
 ----- (Bank) hereinafter called the "The Guarantor" (which expression shall unless repugnant to the  
 context or meaning thereof be deemed to include its successors and assigns) in favour of M/s Bharat Heavy  
 Electrical Limited ( A Govt. of India Undertaking) a company incorporated under the Companies Act,  
 1956, having its registered office at BHEL House, Siri Fort, Asiad, New Delhi – 110049 through its unit at  
 Power Sector – Northern Region, Noida, Distt. Gautam Budh Nagar, (UP) hereinafter called "The  
 Company" (which expression shall unless repugnant to the context or meaning thereof by deemed to  
 include its successors and assigns)

WHEREAS -----(hereinafter referred to as the Contractor) have  
 entered into a contract arising out of Letter of Intent no.----- dt.----- (hereinafter referred to  
 as "the contract") for the construction of ----- with the company.

AND WHEREAS the contract inter-alia provides that the contractor shall furnish to the company a sum  
 of Rs.----- (Rupees-----) towards security deposit for due and  
 faithful performance of the contract in the form and manner specified therein.

AND WHEREAS the contractor has approached the Guarantor and in consideration of the arrangement  
 arrived at between the contractor and the Guarantor, the Guarantor has agreed to give the Guarantee as  
 hereinafter mentioned in favour of the company.

The Guarantor do hereby guarantee to the company the due and faithful performance, observance or  
 discharge of the Contract by the contractor and further unconditionally and irrevocably undertake to pay to  
 the Company without demur and merely on a demand, to the extent of Rs.----- (Rupees-----  
 -----) against any claim by the company on them for any loss, damage, costs, charges and  
 expenses caused to or suffered by the company by reasons of the contractor making any default in the  
 performance, observance or discharge of the terms, conditions, stipulations or undertakings or any of them  
 as contained in the contract.

The decision of the company whether any default has occurred or has been committed by the contractor  
 in the performance, observance or discharge of any of the terms, conditions, stipulations or undertakings or  
 any one of them as contained in the contract and / or as to the extent of loss, damage, costs, charges and  
 expenses caused to or suffered by the company by reason of the contractor making any default in the  
 performance, observance or discharge of any of the terms, conditions, stipulations or undertakings or any  
 one of them shall be conclusive and binding on the Guarantor irrespective of the fact whether the contractor  
 admits or denies the default or questions the correctness of any demand made by the company in any Court,  
 Tribunal or Arbitration proceedings or before any other Authority.

The company shall have the fullest liberty without affecting in any way the liability of the Guarantor  
 under this Guarantee, from time to time to vary any of the terms and conditions of the contract or extend  
 time of performance by the contractor or to postpone for any time and from time to time any of the powers  
 exercisable by it against the contractor and either enforce or forbear from enforcing any of the terms and  
 conditions governing the contract or securities available to the company and the Guarantor shall not be  
 released from its liability under these presents by any exercise by the company of the liberty with reference  
 to the matters aforesaid or by reasons of time being given to the contractor or any other forbearance, act or  
 commission on the part of the company or any indulgence by the company to the contractor or any other

matter or thing whatsoever which under the law relating to sureties would, but for this provision have the effect of so releasing the Guarantor from its liability under this guarantee.

The Guarantor further agrees that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the contract and its claim satisfied or discharged and till the company certifies that the terms and conditions of the contract have been fully and properly carried out by the contractor and accordingly discharges this Guarantee, subject however, that the company shall have no claim under this Guarantee after ----- i.e. (the present date of validity of Bank Guarantee unless the date of validity of this Bank Guarantee is further extended from time to time, as the case may be) unless a notice of the claim under this Guarantee has been served on the Guarantor before the expiry of the said period in which case the same shall be enforceable against the Guarantor notwithstanding the fact that the same is enforced after the expiry of the said period.

The Guarantor undertakes not to revoke this Guarantee during the period it is in force except with the previous consent of the Company in writing and agrees that any liquidation or winding up or insolvency or dissolution or any change in the constitution of the contractor or the Guarantor shall not discharge the Guarantor's liability hereunder.

It shall not be necessary for the company to proceed against the contractor before proceeding against the Guarantor and the Guarantee herein contained shall be enforceable against them notwithstanding any security which the Company may have obtained or obtain from the Contractor shall at the time when proceedings are taken against the Guarantor hereunder be outstanding or unrealized.

Notwithstanding anything contained herein before, our liability under the Guarantee is restricted to Rs.- ----- (Rupees-----). Our guarantee shall remain in force until -----, i.e. (the present date of validity of Bank Guarantee unless the date of validity of this Bank Guarantee is further extended from time to time) unless a claim or demand under this guarantee is made against us on or before ----- we shall be discharged from our liabilities under this Guarantee thereafter.

Any claim or dispute arising under the terms of this documents shall only be enforced or settled in the courts of at New Delhi / Delhi only.

The Guarantor hereby declares that it has power to execute this guarantee and the executant has full powers to do so on behalf of the Guarantor.

IN WITNESS whereof the ----- (Bank) has hereunto set and subscribed its hand the day, month and year first, above written.

Signed for and on behalf of the Bank

(Signatory No.-----)

#### WITNESSES

1. Name & Address
2. Name & Address

Notes :

1. The above BG shall be executed on the non-judicial stamp papers of adequate value procured in the name of the bank in the state where the bank is located.
2. The above BG is required to be sent by the executing bank directly to BHEL at the address where tender is submitted / accepted under seal cover.

**LIST OF MEMBER BANKS**

- |   |   |
|---|---|
| <p>1. State Bank of India<br/>CAG Branch,<br/>10<sup>th</sup> Floor, Vijaya Building,<br/>Barakhamba Road,<br/>New Delhi – 110001.</p> <p>2. Canara Bank<br/>74, Janpath,<br/>New Delhi – 110001.</p> <p>3. Punjab National Bank,<br/>74, Janpath,<br/>New Delhi – 110001.</p> <p>4. Bank of Baroda,<br/>Corporate Banking Branch,<br/>11<sup>th</sup> Floor, BOB Building,<br/>Sansad Marg,<br/>New Delhi – 110001.</p> <p>State Bank of Hyderabad,<br/>Surya Kiran Building, K.G. Marg,<br/>New Delhi – 110001.</p> <p>5. State Bank of Mysore,<br/>Antriksh Bhawan, K.G. Marg,<br/>New Delhi – 110001.</p> <p>6. State Bank of Mysore,<br/>Industrial Finance Branch,<br/>18, Ramanashree Arcade,<br/>M.G. Road, Bangaloe – 560001.</p> <p>7. State Bank of Travancore,<br/>Travancore House, IF Branch,<br/>K.G. Marg, New Delhi – 110001.</p> <p>8. Deutsche Bank,<br/>Tolstoy Marg,<br/>New Delhi – 110001.</p> | <p>9. HDFC Bank Ltd.,<br/>5<sup>th</sup> Floor, HT House,<br/>K.G. Marg,<br/>New Delhi – 110001.</p> <p>10. Citi Bank N A<br/>Jeevan Vihar Building,<br/>Sansad Marg,<br/>New Delhi – 110001.</p> <p>11. Standard Chartered Bank,<br/>H2 Block, Connaught Place,<br/>New Delhi – 110001.</p> <p>12. ICICI Bank Ltd.,<br/>ICICI Tower,<br/>Bisham Pitamah Marg,<br/>Pragati Vihar,<br/>New Delhi – 110003.</p> <p>13. IDBI Bank Ltd.,<br/>19, K.G. Marg,<br/>Surya Kiran Building,<br/>New Delhi.</p> <p>14. HSBC Ltd.,<br/>ECE House,<br/>28 KG Marg,<br/>New Delhi – 110001.</p> |
|---|---|

## ANNEXURE - I

**AGREEMENT**

Agreement No. and Date \_\_\_\_\_  
 Name of the Work \_\_\_\_\_  
 \_\_\_\_\_  
 Name of the Contractor with  
 full address \_\_\_\_\_  
 \_\_\_\_\_  
 Value of work awarded \_\_\_\_\_  
 Letter of Intent No. and Date \_\_\_\_\_  
 Scheduled Commencement Date \_\_\_\_\_  
 Scheduled Completion Date \_\_\_\_\_

THIS AGREEMENT MADE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2000 between BHARAT HEAVY ELECTRICALS LIMITED (A Government of India Enterprise) a Company incorporated under the Companies Act, 1956, having its Registered Office at BHEL House, Siri Fort New Delhi- 110049 (herein after called BHEL) of the ONE PART.  
 AND

M/S \_\_\_\_\_  
 \_\_\_\_\_ (hereinafter called the 'Contractor') of the SECOND PART.

WHEREAS M/s \_\_\_\_\_ state that they have acquired and possess extensive experience in the field of \_\_\_\_\_

And Whereas in response to an Invitation to Tender No. \_\_\_\_\_ issued by BHEL for execution of \_\_\_\_\_ the contractor submitted their offer No. \_\_\_\_\_ dated \_\_\_\_\_ And whereas BHEL has accepted the offer of the Contractor on terms and conditions specified in the Letter of Intent No. \_\_\_\_\_ dated \_\_\_\_\_ read with the references cited therein.

THIS AGREEMENT WITNESSES AND it is hereby agreed by and between the parties as follows:

1. That the contractor shall execute the work of \_\_\_\_\_ and more particularly described in Tender Specification No. \_\_\_\_\_ including Drawings and Specifications (hereinafter called the said works) in accordance with and subject to terms and conditions contained in these presents, instructions to Tenderers, General Conditions of Contract, Special Conditions, Annexures, Letter of Intent dated \_\_\_\_\_ and such other instructions, Drawings, Specifications given to him from time to time by BHEL.
2. The Contractor is required to furnish to BHEL Security deposit in the form of cash/ approved securities/ Bank Guarantee valid upto \_\_\_\_\_ for a sum of Rs. \_\_\_\_\_ towards satisfactory performance and completion of the Contract.
3. The Contractor has furnished a Bank Guarantee bearing no. \_\_\_\_\_ dated \_\_\_\_\_ for a sum of Rs. \_\_\_\_\_ executed by \_\_\_\_\_ in favour of BHEL towards Security Deposit valid upto \_\_\_\_\_

OR

The Contractor has furnished to BHEL an initial Security Deposit of Rs. \_\_\_\_\_ in the form of cash / approved Securities/ B.G No. \_\_\_\_\_ dated \_\_\_\_\_ for Rs. \_\_\_\_\_ executed by \_\_\_\_\_ in favour of BHEL valid upto \_\_\_\_\_ and has agreed for recovery of the balance security deposit by BHEL @ 10% of the value of work done from each running bill till the entire Security Deposit is recovered.

OR

The contractor has furnished to BHEL an initial Security Deposit of Rs.----(Rs.----- vide Bank draft No.-----dated -----and by adjusting EMD of Rs.-----submitted vide Bank draft No.----- dt.-----) and has agreed for recovery of balance Security Deposit by BHEL @ 10% of the value of work done from each running bill till the entire security deposit is recovered.

4. The Contractor hereby agrees to extend the validity of the Bank Guarantee for such further period or periods as may be required by BHEL and if the Contractor fails to obtain such extension(s) from the Bank, the Contractor, shall pay forthwith or accept recovery of Rs.----- from the bills in one installment and the contractor further agrees that failure to extend the validity of the Bank Guarantee or failure to pay the aforesaid amount in the manner specified above shall constitute breach of contract. In addition to above, BHEL shall be entitled to take such action as deemed fit and proper for recovering the said sum of Rs.-----

--

OR

In case the contractor furnishes the bank guarantee at a later date the contractor hereby agrees to extend the validity of bank guarantee for such further period or periods as may be required by BHEL and if the contractor fails to obtain such extension(s) from the bank, the contractor shall pay forthwith or accept recovery of the amount of bank guarantee given in lieu of security deposit from the bills in one installment and the contractor further agrees that failure to extend the validity of bank guarantee or failure to pay the aforesaid amount in the manner specified above shall constitute breach of contract. In addition to above, BHEL shall be entitled to take such action as deemed fit and proper for recovering the said sum.

5. That in consideration of the payments to be made to the Contractor by BHEL in accordance with this Agreement the Contractor hereby covenants and undertakes with BHEL that they shall execute, construct, complete the works in conformity, in all respects, with the terms and conditions specified in this Agreement and the documents governing the same.
6. That the Contractor shall be deemed to have carefully examined this Agreement and the documents governing the same and also to have satisfied himself as to the nature and character of the Works to be executed by him.
7. That the Contractor shall carry out and complete the execution of the said works to the entire satisfaction of the Engineer or such other officer authorised by BHEL, within the agreed time schedule, the time of completion being the essence of the Contract.
8. That BHEL shall, after proper scrutiny of the bills submitted by the Contractor, pay to him during the progress of the said works such sum as determined by BHEL in accordance with this Agreement.
9. That this Agreement shall be deemed to have come into force from ----- the date on which the letter of intent has been issued to the Contractor.
10. That whenever under this contract or otherwise, any sum of money shall be recoverable from or payable by the Contractor, the same may be deducted in the manner as set out in the General Conditions of Contract or other conditions governing this Agreement.
11. That all charges on account of Octroi, Terminal and other taxes including sales tax or other duties on material obtained for execution of the said works shall be borne and paid by the Contractor.
12. That BHEL shall be entitled to deduct from the Contractor's running bills or otherwise Income Tax under Section 194 (C) of the Income Tax Act, 1961.
13. That BHEL shall be further entitled to recover from the running bills of the Contractor or otherwise such sum as may be determined by BHEL from time to time in respect of consumables supplied by BHEL, hire charges for tools and plants issued (Where applicable) and any other dues owed by the Contractor.
14. That it is hereby agreed by and between the parties that non- exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents and the liability of the Contractor with respect to compensation payable to BHEL or Contractor's obligations shall remain unaffected.

15. It is clearly understood by and between the parties that in the event of any conflict between the Letter of Intent and other documents governing this Agreement, the provisions in the Letter of Intent shall prevail.

16. The following documents

1. Invitation to Tender No-----  
and the documents specified therein.
2. Contractor's Offer No----- dated-----.
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. Letter of Intent No\_\_\_\_\_ dated\_\_\_\_\_.
7. \_\_\_\_\_

shall also form part of and govern this Agreement.

IN WITNESS HEREOF, the parties hereto have respectively set their signatures in the presence of

WITNESS

1.

2.

(CONTRACTOR)  
(to be signed by a person holding  
a valid Power of Attorney)

WITNESS

1.

2.

(For and on behalf of BHEL)

**SECTION – I (a)**  
**SPECIFICATION**  
**FOR**  
**HEALTH, SAFETY AND ENVIRONMENT (HSE)**

**1.0 SCOPE**

This specification establishes the Health, Safety and Environment (HSE) management requirement to be complied with by the Contractors during construction.

Requirements stipulated in this specification shall supplement the requirements of HSE Management given in relevant Act (s) /legislations, General Condition Contract (GCC). Special Conditions of Contract (SCC) and job specification where different documents stipulates different requirements, the most stringent be adopted.

**2.0 REFERENCES**

This document should be read in conjunction with following :

- General Conditions of Contract (GCC)
- Special Conditions of Contract (SCC)
- Scope of work
- Relevant IS Codes (refer Annexure-I)
- Reporting Formats (refer Annexure-II)

**3.0 REQUIREMENTS OF HEALTH, SAFETY & ENVIRONMENT (HSE) MANAGEMENT SYSTEM TO BE COMPLIED BY CONTRACTORS.**

**3.1 MANAGEMENT RESPONSIBILITY**

3.1.1 The Contractor to comply with HSE requirement at Construction sites as enclosed to cover commitment of their organization to ensure health, safety and environment aspects in their line of operations.

3.1.2 The HSE management system shall cover the HSE requirements including but not limited to what is specified under Para 1.0 and para 2.0 above.

3.1.3 Contractor shall be fully responsible for planning and implementing HSE requirements. Contractor as a minimum requirement shall designate/deploy the following to co-ordinate the above :

- |                                  |   |
|----------------------------------|---|
| No. of workers deployed upto 250 | - Designate one safety Supervisor                               |
| Above 250 & upto 500             | - Deploy one qualified and Experienced safety Engineer/ Officer |

Above 500  
(for every 500 or less)

- One additional safety engineer/  
officer, as above.

Contractor shall indemnify & hold harmless Owner/BHEL & their representatives free from any and all liabilities arising out of non-fulfillment of HSE requirement.

- 3.1.4 The Contractor shall ensure that the Health, Safety and Environment (HSE) requirements are clearly understood & faithfully implemented at all levels at site.
- 3.1.5 BHEL shall promote and develop consciousness for Health, Safety and Environment among all personnel working for the Contractor. Regular awareness programmes and work site meetings shall be arranged on HSE activities to cover hazards involved in various operations during construction.
- 3.1.6 The Contractor shall arrange suitable first aid measures such as First Aid Box, trained personnel to give First Aid and install fire protection measures such as adequate number of steel buckets with sand and water to the satisfaction of BHEL/Owner.
- 3.1.7 Non-Conformance on HSE by Contractor (including his Sub-contractors) as brought out during review / audit by BHEL/Owner representative shall be resolved forthwith by Contractor. Compliance report shall be provided to BHEL.
- 3.1.8 The Contractor shall ensure participation of his Resident Engineer / Site-In-Charge in the Safety Committee / HSE Committees meetings arranged by BHEL / Owner. The compliance of any observations shall be arranged urgently. He shall assist BHEL / Owner to achieve the targets set by them on HSE during the project implementation.
- 3.1.9 The Contractor shall adhere consistently to all provisions of HSE requirements. In case of non-compliance or continuous failure in implementation of any of HSE provisions, BHEL / Owner may impose stoppage of work without any Cost & Time implication to BHEL / Owner and / or impose a suitable penalty for non-compliance with a notice of suitable period, upto a commulative limit of 1.0% (one percent) of Contract value. This penalty shall be in addition to all other penalties specified else where in the contract. The decision of imposing stoppage of work, its extent & minority penalty shall rest with BHEL / Owner & binding on the Contractor.
- 3.1.10 All fatal accidents and other personnel accidents shall be investigated by a team of Contractor's senior personnel for root cause & recommended corrective and preventive actions. Findings shall be documented and suitable actions taken to avoid recurrences shall be communicated to BHEL / Owner. BHEL / Owner shall have the liberty to independently investigate such occurrences and Contractor shall extend all necessary help and co-operation in this regard.

## **3.2 HOUSE KEEPING**

- 3.2.1 Contractor shall ensure that a high degree of house keeping is maintained and shall ensure interalia; the following :
  - a) All surplus earth and debris are removed / disposed off from the working areas to identified locations (s).

- b) Unused/Surplus Cables, Steel items and steel scrap lying scattered at different places within the working areas are removed to identified locations (s).
- c) All wooden scrap, empty wooden cable drums and other combustible packing materials, shall be removed from work place to identified location(s).
- d) Roads shall be kept clear and materials like : pipes, steel, sand boulders, concrete, chips and brick etc., shall not be allowed on the roads to obstruct free movement of men & machineries.
- e) Fabricated steel structurals, pipes & piping materials shall be stacked properly for erection.
- f) Water logging on roads shall not be allowed.
- g) No parking of trucks/trolleys, cranes and trailers etc., shall be allowed on roads which may obstruct the traffic movement.
- h) Utmost care shall be taken to ensure over all cleanliness and proper upkeep of the working areas.
- i) Trucks carrying sand, earth and pulverized materials etc., shall be covered while moving within the plant area.

In case of non-compliance of any of above, BHEL shall have the liberty to get it done from some other agency at this risk and cost.

### **3.3 HEALTH, SAFETY AND ENVIRONMENT**

- 3.3.1 The Contractor shall provide safe means of access to any working place including provisions of suitable and sufficient scaffolding at various stages during all operations of the work for the safety of his workmen, and BHEL / Owner. Contractor shall ensure deployment of appropriate equipment and appliances for adequate safety and health of the workmen and protection of surrounding areas.
- 3.3.2 The contractor shall ensure that all their staff and workers wear Safety Helmet and Safety shoes. Contractor shall also ensure use of safety belt, protective goggles, gloves etc., by the personnel as per job requirements. All these gadgets shall conform to relevant IS specifications or equivalent.
- 3.3.3 The Contractor shall assign to his workmen, tasks commensurate with their qualification, experience and state of health for driving of vehicles, handling and erection of material and equipments. All lifting equipments shall be tested certified for its capacity before use. Adequate and suitable lighting at every work place and approach there to, shall be provided by the Contractor before starting the actual operations at night. It is mandatory for contractor to get his workmen medically examined / checked for fitness of work assigned once a year and furnish the certificate to that effect from RMP / Govt. Hospital.
- 3.3.4 Hazardous and / or toxic materials such as solvent, coating or thinners shall be stored in appropriate containers.

- 3.3.5 All hazardous materials shall be labeled with the name of the materials, the hazards associated with its use and necessary precautions to be taken.
- 3.3.6 Contractor shall ensure that during the performance of the work, all hazards of the health of personnel, have been identified, assessed and eliminated.
- 3.3.7 Chemical spills shall be contained and cleaned up immediately to prevent further contamination.
- 3.3.8 All personnel exposed to physical agents such as ionizing or non-ionizing radiation, ultraviolet rays or similar other physical agents shall be provided with adequate shielding or protection commensurate with the type of exposure involved.
- 3.3.9 Where contact or exposure of hazardous materials could exceed limits or could otherwise have harmful effects, appropriate personnel protective equipment such as gloves, goggles, aprons, chemicals resistant clothing and respirator shall be used.
- 3.3.10 All persons deployed at site shall be knowledgeable of and comply with the environmental laws, rules & regulations relating to the hazardous materials substances and wastes. Contractor shall not dump, release or otherwise discharge or dispose off any such materials without the express authorization of BHEL / Owner.

#### **4.0 DURING JOB EXECUTION**

4.1 Implement Health, Safety and Environment requirements including but not limited to as brought out under para 3.0. Contractor shall ensure to :

- arrange workmen compensation insurance, registration under ESI Act, third party liability insurance etc., as applicable.
- arrange all HSE permits before start of activities (as applicable) like hot work, confined space, work at heights, storage of chemical / explosive materials and its use and implement all precautions mentioned therein.
- Submit timely the completed checklist on HSE activities, Monthly HSE report, accident reports, investigation reports etc., as per BHEL / Owner requirements. Compliance of instructions on HSE shall be done by Contractor and informed urgently to BHEL / Owner.
- Ensure the Resident Engineer / Site-Incharge of the Contractor shall attend all the Safety Committee / HSE meetings arranged by BHEL/Owner. In case of his absence from site that a second senior most person shall be nominated by him in advance and communicated to BHEL/Owner.
- Display at site office and work locations caution boards, list of hospitals, emergency services available.
- Display posters, banners made available by BHEL for safe working to promote safety consciousness.
- Assist in HSE audits by BHEL / Owner and submit compliance report.

- Generate and submit HSE records / report as per HSE plan.
- Appraise BHEL / Owner on HSE activities at site.

## ANNEXURE - I

### RELEVANT IS – CODES FOR PERSONAL PROTECTION

IS: 2925-1984	Industrial Safety Helmets
IS: 4770-1968	Rubber gloves for electrical purposes
IS: 6994, 1973 (Part-I)	Industrial Safety Gloves (Leather & Cotton Gloves)
IS: 1989-1986 (Part I & III)	Leather safety boots and shoes
IS: 3738-1975	Rubber knee boots
IS: 5557-1969	Industrial and Safety rubber knee boots
IS: 6519-1971	Code of practice for selections, care and repair of Safety footwear
IS: 11226-1985	Leather Safety footwear having direct moulding sole
IS: 5983-1978	Eye protectors
IS: 9167-1979	Ear protectors
IS: 3521-1983	Industrial Safety belts and harness

## ANNEXURE – II

## 1.0 HEALTH, SAFETY &amp; ENVIRONMENT (HSE) PLAN

PROJECT: ----- CONTRACTOR :-----

DATE :----- OWNER :-----

(To be prepared by each construction Agency)

-----ACTIV]						
PROCEDURE/ DESCRIPTION	CODE OF W.I/ GUIDELIES	PERFORMING FUNCTIONS CONFOR- MANCE	AUDIT FUNCTION CUSTOMER REVIEW AUDIT REQUIREMENT	PERFOR- MER	CHECK- ER	APPRO- VER
-----						

PREPARED BY

REVIEWED BY

APPROVED BY  
(RESIDENT ENGINEER)

**2.0 MONTHLY HSE CHECKLIST CUM COMPLIANCE REPORT (1/6)**

PROJECT:----- CONTRACTOR:-----

DATE :----- OWNER:-----

INSPECTION BY:-----

Note: Write 'NA' wherever the item is not applicable.

ITEM	YES	NO	REMARKS	ACTION
------	-----	----	---------	--------

**HOUSING KEETING**

Waste containers provided and used

Sanitary facilities adequate and clean

Passageways and Walkways Clear

General neatness of working areas

Others

**PERSONNEL PROTECTIVE EQUIPMENT**

Goggles: Shelds

Face protection

Hearing protection

Safety Shoes provided

Hand protection

Safety Belts

Others

**EXCAVATIONS / OPENINGS**

Openings properly covered or barricaded

Excavations shored

Excavations barricaded

Overnight lighting provided

Other

**MONTHLY HSE CHECKLIST CUM COMPLIANCE REPORT (Contd.. 2/6)**

ITEM	YES	NO	REMARKS	ACTION
<b>WELDING, CUTTING</b>				
Gas cylinders chained upright				
Cables and hoses not obstructing				
Screens or shields used				
Flammable materials protected				
Fire extinguisher (s) accessible				
Other				
<b>SCAFFOLDING</b>				
Fully decked platforms				
Guard and intermediate rails in place				
Toe boards in place				
Adequate shoring				
Adequate access				
Other				
<b>LADDERS</b>				
Extension side rails 1 m above				
Top of landing				
Properly secured				
Angle + 70 from horizontal				
Other				

**MONTHLY HSE CHECKLIST CUM COMPLANCE REPORT (Contd.3/6)**

ITEM	YES	NO	REMARKS	ACTION
------	-----	----	---------	--------

**HOIST. CRANES AND DERRICKS**

Condition of cables and sheaves OK

Condition of slings, chains, hooks & eyes O.K.

Inspection and maintenance logs maintained

Outriggers used

Signs/barricades provided

Signals observed and understood

Qualified operators

Other

**MACHINERY, TOOLS AND EQUIPMENT**

Proper instruction

Safety devices

Proper cords

Inspection and maintenance

Other

**VEHICLE AND TRAFFIC**

Rules and regulations observed

Inspection and maintenance

Licensed drivers

Other

**MONTHLY HSE CHECKLIST CUM COMPLIANCE REPORT (Contd.4/6)**

ITEM	YES	NO	REMARKS	ACTION
<b>TEMPORARY FACILITIES</b>				
Emergency instructions posted				
Fire extinguishers provided				
Fire-aid equipment available				
Secured against storm damage				
General neatness				
In accordance with electrical requirements				
Other				
<b>FIRE PREVENTION</b>				
Personnel instructed				
Fire extinguishers checked				
No smoking in Prohibited areas				
Hydrants Clear				
Other				
<b>ELECTRICAL</b>				
Proper wiring				
ELCB's provided				
Ground fault circuit interrupters				
Protection against damage				
Prevention of tripping hazards				
Other				

**MONTHLY HSE CHECKLIST CUM COMPLIANCE REPORT (Contd.5/6)**

ITEM	YES	NO	REMARKS	ACTION
<b>HANDLING AND STORAGE OF MATERIALS</b>				
Properly stored or stacked				
Passageways clear				
Other				
<b>FLAMMABLE GASES AND LIQUIDS</b>				
Containers clearly identified				
Proper storage				
Fire extinguishers nearby				
Other				
<b>WORKING AT HEIGHT</b>				
Erection plan				
Safety belts and lanyards; chute lines				
Other				
<b>ENVIRONMENT</b>				
Chemical and other Effluents properly disposed				
Cleaning liquid of pipes disposed off properly				
Water used for hydrotesting disposed off as Per agreed procedure				
Lubricant Waste/Engine Oil properly disposed				
Waste from Canteen, offices, sanitation etc., Disposed properly				
Disposal of surplus earth, stripping materials, Oily rags and combustible materials done Properly				

**MONTHLY HSE CHECKLIST CUM COMPLIANCE REPORT (Contd.6/6)**

ITEM	YES	NO	REMARKS	ACTION
Green belt protection				
Hygienic conditions at labour camps O.K?				
Availability of First Aid facilities				
Proper sanitation at site, office and Labour camps				
Arrangement of medical facilities				
Measures for dealing with illness				
Availability of Potable drinking water For workmen & staff				

**Signature of Resident  
Engineer with Seal**

### 3.0 ACCIDENT CUM FIRE REPORT

(To be submitted by contractor after every accident within 24 hours of accident)

Report : \_\_\_\_\_

Name of Site: \_\_\_\_\_

Date: \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

---

NAME OF THE INJURED \_\_\_\_\_

FATHER'S NAME \_\_\_\_\_

SUB-CONTRACTOR M/S \_\_\_\_\_

DATE & TIME OF ACCIDENT \_\_\_\_\_

LOCATION \_\_\_\_\_

---

**BRIEF DESCRIPTION OF ACCIDENT**

---

**CAUSE OF ACCIDENT**

---

**NATURE OF INJURY/DAMAGE**

---

**MEDICAL AID PROVIDED/ACTIONS TAKEN**

---

**INTIMATION TO LOCAL AUTHORITIES**

---

**DATE:**

**SIGNATURE OF CONTRACTOR  
WITH SEAL**

**TO: SITE-IN-CHARGE/BHEL**

**1 COPY**

#### 4.0 SUPPLEMENTARY ACCIDENT & INVESTIGATION REPORT

Project: \_\_\_\_\_ Supplementary to Report No. \_\_\_\_\_  
(Copy enclosed)

Site: \_\_\_\_\_ Date: \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

---

NAME OF THE INJURED \_\_\_\_\_

FATHER'S NAME \_\_\_\_\_

SUB-CONTRACTOR M/S \_\_\_\_\_

DATE & TIME OF ACCIDENT \_\_\_\_\_

LOCATION \_\_\_\_\_

---

**BRIEF DESCRIPTION & CAUSE OF ACCIDENT**

---

**NATURE OF INJURY/DAMAGE**

---

**COMMENTS FROM MEDICAL PRCTICETIONER, WHO ATTENDED THE VICTIM /  
INJURED**

---

**SUGGESTED IMPROVEMENT IN THE WORKING CONDITION, IF ANY**

---

**LOSS OF MANHOURS AND IMPACT ON SITE WORKS**

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**ANY OTHER COMMENT BY SAFETY OFFICER**

**DATE:**

**SIGNATURE OF CONTRACTOR  
WITH SEAL**

**TO: SITE-IN-CHARGE/BHEL**

**1 COPY**

**5.0 MONTHLY HEALTH, SAFETY & ENVIRONMENT (HSE) REPORT**

(To be submitted by each Contractor)

Actual work start Date: \_\_\_\_\_ For the month of \_\_\_\_\_

Project: \_\_\_\_\_ Report No. \_\_\_\_\_

Name of the Contractor: \_\_\_\_\_ Status as on: \_\_\_\_\_

Name of Work: \_\_\_\_\_ Name of safety officer \_\_\_\_\_

ITEM	THIS MONTH	CUMMULATIVE
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Total Strength (Staff + Workmen)

Number of HSE meetings organized at site

Number of HSE awareness programmes  
Attended at site

Whether workmen compensation policy taken Y/N

Whether workmen compensation policy is valid Y/N

Whether workmen registered under ESI Act Y/N

Number of Fatal Accidents

Number of Loss Time Accidents (Other than Fatal

Other accidents (Non Loss Time)

Total No. of Accidents

Total man-hours worked

Man-hour loss due to fire and accidents

Compensation cases raised with Insurance

Compensation cases resolved and paid to workmen

Remarks

Date

Safety Officer/Resident Engineer  
(Signature & Name)

To: SITE-IN-CHARGE,BHEL

1 COPY

**SECTION - III****SPECIAL CONDITIONS OF CONTRACT**

Clause no	Title
-----	
34.0	General Scope of Works
35.0	Tools & Plants
36.0	Labour & Supervisory Staff
37.0	Facilities to be provided by BHEL/ Contractor
38.0	Time Schedule
39.0	Price Variation
40.0	Taxes & duties
41.0	Terms of payment
42.0	Rate Schedule
43.0	Liens
44.0	Other miscellaneous conditions
45.0	Insurance
46.0	Force Majeure
47.0	Custom Duty & Custom Clearance

## SECTION: III

## SPECIAL CONDITIONS

## 34.0 GENERAL SCOPE OF WORKS

**34.1 BHEL has been awarded the work of setting up 4 x 125 MW Power Plant in Kosti, Sudan on EPC basis.** The equipment consists of boiler, Electro-static precipitator, fans, steam turbines, generators, boilers feed pumps, piping along with the associated auxiliaries, Control and Instrumentation System Equipments. These materials will be supplied from our manufacturing units located all over the country as well as our vendors located both in the country and abroad. The scope of work under this tender consists of **receiving & handling approximately 100,000 MT of plant materials and other equipments from hook of shipping vessels at Port of Sudan (Containerized & Break Bulk Cargo)**, Port clearance, co-ordination with local Custom / other Authorities of Government of Sudan/ BHEL's Customer "The NATIONAL ELECTRICITY CORPORATION" (NEC), Sudan and / or their Consultant M/s. Fichtner, obtaining necessary clearances, unloading at Port, de-stuffing & releasing of containers (wherever required), loading at carriers, lashing / anchoring as per drawings / directives of BHEL, safe & expeditious transportation to site stores including complete safe unloading and trans shipment arrangements, wherever required, unloading at site stores, stacking & preservation (including supply of preservatives) as required. Scope includes providing all equipments and facilities, required handling equipments (tools & plants), required manpower including supervision, and consumables like concrete/wooden sleepers, tarpaulins, plastic and fireproof covers, paints etc. for doing the transportation and material handling work specified in this tender. **As the delivery of these materials will be taken by the contractor at Port of Sudan, the contractor shall have to maintain an establishment at Port of Sudan in addition to his establishment at project site.**

**34.2** The contractor is to use his own equipments like suitable cranes / trucks / tractor trailers and other material handling equipments including all necessary small / major T&Ps required for the above work. As the materials are to be discharged directly from vessel, bidders should be equipped with sufficient number of Trailers, Trucks and T&Ps for taking the direct discharge. Any demurrage charges 'OR' detention charges of vessel towards non-availability of such equipments shall be to the contractor's account.

**34.3 Annexure-I attached with this NIT gives** the general idea about the weights and dimensions of some of the major components / equipments to be handled by the contractor. The weights and dimensions shown are approximate and are liable to vary. No increase in final accepted rates / prices shall be allowed due to change in weights and dimensions of the equipment / materials. Quantities mentioned in the rate schedules are approximate only and liable for variation due to change of scope of work / variation in schedule of quantities, changes in design etc. **The contractor has to handle whatever actual materials are dispatched for the project irrespective of any variations and the payment shall be made for the actual gross tonnage handled.** The quantities indicated against each item may vary to any extent and no compensation will be payable in variation of Individual quantity. **However, in case of over all variation in final executed value (w.r.t the awarded value indicated in the LOI) beyond (minus) 30% i.e in case of reduction in executed value w.r.t awarded value, the contractor will be eligible for compensation as per the following provision :**

**"The final executed value shall be raised by 10 % of the executed value subject to the condition that the total value of work executed plus increase as above shall be limited to 70 % of the awarded contract value"**

Tenderers are required to take above into account while quoting the unit rates quoted as per Rate Schedule so as to take care of such variation during execution stage.

- 34.4 Temporary transshipment & storage at Port and in transit, if required, shall also be in contractor's scope. Damages, if caused to Public / Pvt. Properties enroute shall be repaired to the satisfaction of the authorities. All clearances for such inland transportation within Sudan, strengthening and or widening of loading / unloading area, culverts / bridges, roads, if required, shall also be done by the contractor. Necessary permits with fees required for such work shall be in contractor's scope. However any fees paid to Sudanese Govt. Authority shall be reimbursed at actual on production of relevant documents.
- 34.5 Providing insurance Surveyor(s) with all facilities, as per requirements of Underwriters, for damaged materials / package inspection, including reports & claims, and re-packing, if necessary shall also be in contractor's scope. The contractor shall assist BHEL in raising insurance claim in case of damage, short supply, theft or any other cause (after taking delivery of materials from Port authorities) in consultation with BHEL Engineer and assist during survey work by the surveyor of Insurance company. The Contractor shall also assist in raising Material Discrepancy Report (MDR) and they will required to provide the necessary information and inputs (like lodging of FIRs with local police stations etc) immediately after occurrence of such incidents.
- 34.6 Checking and verifying all shipments received against shipping documents under supervision of BHEL, and issuing receipt cum damage reports, including arranging inspection & surveys by customer / port authorities / surveyors at Port of Entry and Site, lodging & expeditious settlement of claims.
- 34.7 The Contractor shall arrange for preservation of components as per BHEL's storage and preservation manual and/or as per instructions of BHEL Engineer till the same are issued for erection. BHEL will provide **only special preservative and pipe end caps**. All other necessary preservatives, paints, thinners, rust preventives, grease, lubricants **etc. shall be arranged by the contractor within the finally accepted rate**. All tools & tackles and other consumables required for preservation of components **(till the time the materials is issued from stores)** including supervision shall however be provided by contractor at his own cost. Preservation of components includes applying preservatives, paints, rust preventives, greasing of threaded portions, fixing of end caps in position for pressure parts, repainting of work order / DU numbers, component codes etc. After preservation wherever necessary, components will be stacked properly as per original stacking for which no additional payment shall be made. Proper tagging of verified materials shall be done for quick identification as per instruction of BHEL Engineer.
- 34.8 Payment of all demurrage / wharfage that results due to contractor's faults would be the responsibility of contractor and to his account. If BHEL have to make payment of demurrage / wharfage together with freight, the amount so paid as demurrage / wharfage together with freight, for the reasons stated above, shall be paid by the contractor forthwith or would be recovered from bills of the contractor.
- 34.9 In any case contractor will pursue with concerned carrier / Port authorities at all level (local / HQ etc.) for waiver / reduction to the minimum of such demurrage / wharfage charges. Whenever such demurrages / wharfage become payable due to reasons not attributable to

- contractor, contractor will immediately bring it to the notice of BHEL with specific request to bear such charges. The decision of the engineer in such case will be final and binding on the contractor.
- 34.10 The contractor has to ensure the unloading and removal of materials from unloading place within the permitted time and ensure to keep the area free and avoid jamming. Any loss to BHEL on this account shall be recovered from the contractor.
- 34.11 Any discrepancy shortage / damage found in the consignment after taking delivery from the carriers / ports after giving clear receipt would be the responsibility of the contractor and the amount liable to be lost by BHEL on such accounts is recoverable from the contractor.
- 34.12 In case of apparent damages / shortages in consignments / packing noticed by the contractor, such cases shall be brought to the notice of BHEL and cleared only with their consent / approval.
- 34.13 It would be responsibility of the contractor to examine the packages, consignments etc. on arrival and bring to the notice of carriers / port authority and BHEL authorities regarding loss / damages, if any, observed in the consignments whose delivery is proposed to be taken. Before taking delivery, particularly of consignments in 'smalls' the weight of the package shall be checked with the invoiced weight of the packages and any discrepancy shall be reported immediately to BHEL / carriers. **In all cases of loss / damages, the contractor will take open delivery from the carriers and forward such open delivery certificates (ODC) to the Engineer with in 15 days of receipt of such consignment.** All expenses connected there with shall be to the account of contractor. BHEL reserves right to claim losses, if any, accrued to BHEL in the event of contractor non-compliance to above.
- 34.14 In case of short delivery and non-delivery, immediate notice of loss shall be filed with the concerned Authority at places of dispatch and destination as also at any intermediate stations, if it is different one, under intimation to BHEL authorities at site
- 34.15 BHEL reserves the right to recover from the contractor any loss which arises out of undue delay / discrepancy / shortage / damages or any other cause during transit between the Ports / weigh bridges and BHEL storage yard / store sheds / Project site or during unloading at ports / storage yard / store shed / project site or during stacking or any time during the custody of contractor.
- 34.16 Consignments coming on Thursday / Friday and on Holidays are also required to be handled by the contractor promptly. It will be the responsibility of the contractor to contact the site engineer / authorized representative of BHEL at their residence, if required, and obtain instructions to make suitable arrangements.
- 34.17 **In the event unloading from the carrier is delayed by the contractor, the detention charges, if any, will be to contractor's account.**
- 34.18 Under the scope of this contract, it shall be the responsibility of the contractor to provide all necessary facilities to open the packages in the presence of the engineer, verify the contents of the packages, repackaging where ever necessary, properly stacking them as may be directed by the engineer so as to facilitate proper handling, periodical verification of material, receipt position, stock taking etc. for this, the contractor shall have experienced person at site who can maintain the records of dispatch / receipt / stacking / verification /

- shortages / damage / missing items etc. The verification of materials shall be carried out with in 15 days and report shall be submitted as a documentary proof.
- 34.19 All material shall be stored 6 inches above ground level by use of concrete or wooden sleepers. No material shall be left to remain on ground at any time. Material shall not be stacked in low-lying areas where it is likely to get flooded during rains. **Wooden sleepers /concrete block and tarpaulins for this purpose, wherever deemed necessary shall be arranged by the contractor at his own cost.** These items shall be stacked / stored properly at the location(s) specified by BHEL when not in use.
  - 34.20 The material / equipment requiring indoor storage will be handled and stacked inside the storage shed (provided by BHEL) by the contractor using material handling equipment like Hydra crane, Fork lift etc. Manually operated overhead traveling crane of 5 MT capacity provided by BHEL in closed stores can also be used for this purpose.
  - 34.21 For checking / verification of the components / packages with packing slips / WB etc., sufficient experienced persons and other facilities shall be provided by the contractor as and when required by the BHEL Engineer, at no extra cost to BHEL.
  - 34.22 Stacking of the material shall be done as per the instruction and to the satisfaction of engineer. The materials shall be so stacked that the same should facilitate easy handling. In the event of any improper stacking, BHEL may ask the contractor to restack the material properly failing which BHEL may get the job done by another agency at the risk and cost of the contractor.
  - 34.23 The contractor shall execute the work in the most substantial and workman like manner. The stores shall be handled with care and diligence. Any loss to BHEL due to contractor's lapse / negligence shall have to be made good by the contractor.
  - 34.24 Incase contractor is not able to unload, transport, stack the material at the pre-determined area, as per direction of the engineer for any reason whatsoever (including non-availability of crane, tractor trailer and other T&P etc.). BHEL shall be at liberty to get the work done by engaging other agency /equipment / T&P etc at the risk and cost of the contractor.
  - 34.25 If the contractor or his workmen or employees shall break, deface, injure or destroy any part of a building, road kerb, fence, enclosure, water pipes, cables, drains, electric / telephone poles, wire, trees or any other property or to any part of erected components, the contractor shall make the same good at his own expense. In default, BHEL may cause the same to be made good by other workmen or by other means and deduct the expenses from any money due to the contractor. BHEL's decision will be final and binding.
  - 34.26 It shall be responsibility of the contractor to keep the storage areas (closed / open) in neat and tidy conditions. They will maintain and upkeep entire storage area and passage for smooth material handling as per BHEL instructions. Any vegetation like grass, bushes, sarkandas etc. shall be cut in open storage area and removed as and when required and instructed by BHEL Engineer within the contractual value. All surplus / unusable packing materials shall be removed and deposited at location(s) specified by BHEL within the project premises (including weighment of the same within the project premises, if required).
  - 34.27 It will be the responsibility of the contractor to keep in touch with Port of Sudan Authorities, M/s NEC and BHEL site to find out the arrival of consignments, placement of truck / trailers at Port. The contractor shall be responsible for maintaining the joint document providing

exact date and time of placement of carriers at port, taking delivery of material and release of containers, wherever required (with date and time) after destuffing.

- 34.28 Unloading from trailer at storage area / work site of heavy sophisticated equipments like Boiler drums, turbine shafts / rotors, generators, heavy motors, transformers tanks etc shall be done in the presence of BHEL representative.
- 34.29 **The contractor may also be required to carry out work of Loading of materials including packing (if required), at Kosti Site in their own Trucks / Trailers and transporting same to Port of Sudan, Port clearance, co-ordination with local Custom / other Authorities of Government of Sudan / Customer (NEC), Sudan and / or their Consultant M/s. Fichtner, obtaining necessary clearances, unloading at Port & loading on vessels as required. The payment for this activity shall also be made at the same tonnage rate as accepted for main works against this tender.**
- 34.29a Certain items may be despatched with tie rods / strips welded with frame carrying items and with trailer. These tie rods / strips are required to be cut by using Gas flame / Grinder / Saw cutting or by other method as directed by Engineer for unloading of materials.

### **34.30 Health, Safety & Environment management (HSE)**

**34.30.1 BHEL-Power Sector (NR) is an ISO 9001-2000, ISO 14001-1996 and OHSAS 18001-1999 certified company. Quality of work, to customer's satisfaction and system requirements is the essence of these certifications. The contractor in all respects will organize his work, systems, environment, process control documentation, tools, plant, inspection, measuring and testing equipments etc. as per instructions of BHEL Engineer. The contractor shall also comply with applicable legislation and regulations with regards to Health, Safety and Environmental aspects for minimizing risk arising from occupational health & safety hazards, controlling pollution and wastage.**

**34.30.2** Contractor shall arrange for following provisions of HSE ;

1. Contractor has to maintain contact with local / nearest hospital having ambulance facility, scanning & other ultra modern medical facilities required during emergency.
2. Contractor has to ensure pre employment medical check for all staff & workers.
3. **The Contractor shall provide drinking water at site for the use of his workers.**
4. The Contractor has to ensure that adequate First Aid facilities with trained First Aid provider are made available at work site for emergency purpose.

In addition to above, BHEL (through its other contractor) has arranged ambulance at work site for emergency purpose, which can be utilized by contractor in case of emergency. In case, under unavoidable circumstances , if the ambulance is not available, the contractor will have to arrange for the same as under clause 34.31.2(1) .

**34.30.3** Besides provision with regard to SAFETY under Clause 27 of GCC, the contractor will be responsible for Health, Safety & Environment management at site for all the activities to

be carried out by them in accordance with requirements **given under section I(a) of GCC of this document**. The contractor shall continuously take special care to ensure the safety and prevention of human and equipment accidents and maintain good sanitary conditions in and around the site. All the construction work and plant operation must be carried out in the safest possible manner. The Engineer reserves the right to stop any process which, in the Engineer's opinion, is being performed dangerously. In this case the contractor must immediately adhere to the requisite safety precautions and any delays attributed to the work stoppage on this account shall not affect the agreed contractual finishing dates.

The contractor, who is awarded the work, shall have to sign an MOU w.r.t implementation of HSE conditions with BHEL. The contractor shall continuously take special care to ensure the safety and prevention of human and equipment accidents and maintain good sanitary conditions in and around the site. All the construction work and plant operation must be carried out in the safest possible manner. The Engineer reserves the right to stop any process which, in the Engineer's opinion, is being performed dangerously. In this case the contractor must immediately adhere the requisite safety precautions and any delays attributed to the work stoppage on this account shall not affect the agreed contractual finishing dates.

The Contractor shall ensure deployment of dedicated full-time Qualified Safety Officers who shall have full authority to ensure that all necessary safety precautions are observed by the Contractor's employees and sub-contractors. These appointees shall have full responsibility for the safety of all personnel within the contractor's area of the works. Qualified & Experienced Safety Engineer / Officer at site.

**Additional safety requirement of BHEL's Customer(M/S NEC), if any, shall be provided by the Contractor without any extra cost. Non adherence of safety requirements will attract penalty for every instance of violation noticed, which shall be as follows;**

SL NO.	INCIDENCE OF VIOLATION	FINE (IN USD)
1	Not Wearing Safety Helmet	3
2	Not wearing Safety Belt	5
3	Not Sliding properly	5
4	Using Damaged Sling	5
5	Lifting Cylinder without cage or not using trolley	5
6	Operating major T&Ps (Lifting tackles etc) without fitness certificate	10
7	Accident resulting in partial loss in earning capacity	500 per victim
8	Fatal Accident/Accidents resulting in total loss in earning capacity	2000 per victim
9	Exceeding the speed limit (25 Kmph) of vehicles or wreckless driving within project premises.	10

Any other non-conformity noticed but not listed above will also be fined as deemed fit by BHEL. The decision of BHEL Engineer will be final on the above. The amount towards fine as above will be deducted from running bills of the Contractor. The amount so collected above will be utilized for giving award to the employees who are avoiding accident/incidents by following safety rules. The amount will also be spent for supporting the safety activities at site. The decision of BHEL on above will be final and binding on the Contractor.

Some of the common safety rules to be followed during working are as follows :-

- No body is allowed to enter at construction site without Safety Shoe.
- Never enter work area without Safety helmet & chin strap in place.
- No climbing/working allowed without proper safety belt above 2 m. height.
- Do not exceed the speed limit of vehicles 25 Kmph within premises.
- No debris obstacles allowed on the roads & passages.
- To maintain record of all accidents/incidents. All accidents/incidents need to be reported to site Incharge & also need to be investigated (formats & procedure should be finalized)
- Do not walk on pipelines or false ceiling.
- Maintain good Housekeeping at work site.
- No photography/ Videography allowed without permission
- Infrastructure to be developed for carrying out jobs properly in a safe manner.
- All Site supervisors & engineers (including subcontractor's) must be imparted structured training on construction safety before start of the job & record to be maintained.
- Site Safety training to be imparted to all workers & plan to be made to cover each and every worker for this training.
- Tools box talk (5-15 minutes) by supervisor prior to commencement of any job on safety and house keeping.
- Weekly co-ordination meeting of all Safety engineers with BHEL safety officer.
- Monthly safety meeting with Site In-charges.
- Reports: Weekly/monthly/annual HSE report format should be finalized.
- All Safety equipment must be International standards & checked by Safety officer before use.
- Bamboo/wooden Scaffolding material not allowed.
- LPG cylinders not allowed for gas cutting.
- Good House keeping. Separate waste bins to be used for flammable & non flammable material.
- Safety awareness programs for workers by display of boards, posters, competitions, talks etc.
- Deployment of Safety Supervisors for every 250 workers and part there of at work site.
- Display of List of First Aid trained persons.
- Testing certificates for lifting tools & tackle and inspection at regular intervals, besides thorough inspection prior using the same.
- Provision & maintenance of fire extinguishers at construction site & material stores.
- Display of emergency telephone numbers at various locations.
- For work in confined space use 24 V lamp fitting & use tools with air motors or electric tools with max. 24 V.
- Checking of tags of equipments like grinding machine, welding machine, gas cutting set etc. by supervisors before use.
- Provision of Fall arrestors & double lanyard safety belt

- Checking of tags of equipments like grinding machine, welding machine, gas cutting set etc. by supervisors before use

#### **34.30.4 The contractor shall comply with following towards Social Accountability;**

- (a) The contractor shall not employ any employee less than 15 years of age in pursuant to ILO convention. If any child labour were found to have been engaged ,the Contractor shall be levied with expenses of bearing his education expenditure which will include stipend to substantiate appropriate education or employ any other member of family enabling to bear the child education expenditure.
- (b) The Contractor shall abide by UN convention w.r.t Human Rights and shall be liable for Discrimination/Corporal punishment for failure in meeting with relevant requirements.
- (c) The Contractor shall arrange potable drinking water to its employees & workers.

### **35.0 TOOLS AND PLANTS**

**35.1** All T&Ps and IMTEs which are required for successful and timely execution of the work covered within the scope of this tender, shall be arranged and provided by the contractor at his own cost in working condition. **Modern material handling / transportation equipments are** required to be used as per international practices. **BHEL shall not provide any T&P including crane.** In the event of the failure of contractor to bring necessary and sufficient T&Ps/ and IMTEs, BHEL will be at liberty to arrange the same at the risk and cost of contractor including transportation cost of same. Decision of BHEL in this regard shall be final and binding on contractor. Two Nos. EOT cranes in TG hall (as & when they become operational during the period of work) without slings & lifting tackles will be provided by BHEL free of hire charges on sharing basis for unloading of heavy consignments. O&M of EOT crane(s) are excluded from the scope of subject contractor. Contractor will not be entitled for any compensation due to non-availability of EOT crane.

**35.2** All necessary lifting tackles, tools, wires ropes / slings of suitable capacities, distribution boards, connecting cables / welding cables, wire ropes, hoses etc. including temporary air/water/ electrical connections etc required for his operation, shall have to be arranged by the contractor at his own cost and in sufficient numbers. **Availability of Fitness certificates of all T&P and tools and tackles is essential before being put to use.** All such equipments shall be approved by the Engineer based on fitness certificate, before these are actually used for the works . However such approvals shall not relieve the contractor of his responsibilities

**Cranes and transport vehicles which will be normally required to be deployed by the contractor for the execution of this work is indicated in the Annexure-II.** The operators for the equipments, wherever required, shall be arranged by the contractor at his own cost. All the material handling / transportation equipment of the contractor shall have valid permit renewable from time to time for operation in working areas / project sites etc and transportation in respective areas. All supervision and labour required for maintenance and attending breakdowns shall be arranged by the contractor at his own cost.

**35.3** Consolidation of ground and arrangement of sleepers/ sand bag filling etc for safe operation / movement of equipment including cranes / trailers etc shall be the responsibility of the contractor at his cost.

**35.4** Contractor shall ensure deployment of serviced and healthy T&Ps including cranes, lifting tackles, wire rope, Manila rope, winches and slings etc. History card and maintenance

records for major T&Ps will be maintained by the contractor and will be made available to BHEL Engineer for inspection as and when required. Identification for such T&Ps will be done as per BHEL Engineer's advice.

**35.5** BHEL shall have lien on all T&Ps & other equipments of the Contractor brought to the site for the purpose of execution of this contract. BHEL shall continue to hold the lien on all such items throughout the period of contract. No material brought to the Site shall be removed from the Site by the Contractor and/or his Sub-contractors without the prior written approval of the Engineer. Unless otherwise specified in the contract, upon completion of the works envisaged under this tender, the contractor shall remove from the site all T&Ps brought by them to the site along with any surplus materials remaining thereon.

**35.6** The month wise T&P deployment plan to be submitted as per format **(at Annexure-D to General Conditions of Contract)** is only to assess the capability as well as understanding of the contractor to execute the work. It shall be the contractor's responsibility to deploy the required T&Ps, for timely and successful completion of the job, to any extent over and above those indicated in the above deployment plan (including those which are not covered in the plan submitted) without any compensation on this account.

### **36.0 LABOUR & SUPERVISORY STAFF**

**36.1** The Contractor shall appoint a Project Manager for the project, being the responsible representative of the Contractor in charge of managing the Works and liaison with BHEL / Customer (M/s NEC) and / or their Consultant M/s. Fichtner.

**36.2** From the commencement of material handling activities at site, Contractor shall appoint a suitable person as the Incharge (hereinafter referred to as "Site Incharge". The Site Incharge shall be present at the site throughout normal working hours except when on leave, sick or absent for reasons connected with proper performance of the contract. Whenever the Site Incharge is absent from the site, a suitable person shall be appointed to act as his or her deputy.

**36.3** The BHEL Engineer shall have full powers to instruct the Contractor to arrange for immediate termination of services, in connection with this contract, of any Agent, servant or employee whose continued employment is, in his opinion, undesirable, without assigning any reason.

**36.4** The contractor shall deploy all the experienced, skilled, semiskilled and unskilled workmen required for all the works under these specifications. BHEL reserves the right to decide on the suitability of the workers and other personnel who will be deployed by the contractor. BHEL reserves the right to insist on removal of any employee of the contractor at any time, if they find him unsuitable and the contractor shall forthwith remove him. **Such person shall not again be employed for the purpose of or in connection with the Contract without the written permission of BHEL and/or its Customer(M/s NEC). Any person so removed shall be replaced as soon as possible by a competent substitute with information to BHEL and/or its Customer(M/s NEC).**

**36.5** The supervisory staff employed by the contractor shall ensure proper out-turn of work and discipline on the part of the labour put on the job. The contractor in general shall ensure that the works are carried out in a safe and proper manner and in coordination with BHEL or other contractors of BHEL or BHEL's client.

**36.6** If the contractor or his workmen or employees shall break, deface, injure or destroy any part of a building, road kerb, fence, enclosure, water pipes, cables, drains, electric or

telephone posts or wire, trees or any other property or to any part of erected components etc., the contractor shall make the same good at his own expense or in default, BHEL may cause the same to be made good through other means and deduct the expenses along with overheads (of which BHEL's decision will be final) from any money due to the contractor.

- 36.7** It shall be the responsibility of the contractor to ensure safe handling of the equipment taking due precautions to avoid any accident and damage to other equipment and personnel. **The Contractor shall be liable for all accidents, damages etc. to personnel and equipment etc. during the execution of the work.**
- 36.8** The work shall be executed under the usual conditions like rain, insufficient space, improper approach roads etc. affecting major power plant construction and in conjunction with numerous other operations at site. The contractor and his personnel shall cooperate with other personnel. The contractor will coordinate his work with others and proceed in a manner that shall not delay or hinder the progress of work as a whole.
- 36.9** **The month wise manpower deployment plan to be submitted as per format (at Annexure-C to General Conditions of Contract)** is only to assess the capability as well as understanding of the contractor to execute the work. It shall be the contractor's responsibility to deploy the required manpower, for timely and successful completion of the job, to any extent over and above those indicated in the above deployment plan (including those which are not covered in the plan submitted) without any compensation on this account. The contractor shall identify separate persons at site for quality control and safety.

#### **EMPLOYMENT OF WORKERS , WORKING TIME ETC.**

- 36.10** It shall be the responsibility of the Contractor to pay salaries and other benefits to its employees/personnel engaged by it as per the agreement with them, and in keeping in line with the local laws in Sudan. The Contractor shall submit to Construction Manager, BHEL Site, Kosti, Sudan regularly, the details/statement of wages paid to its workers in India/back home, besides wages paid in Sudan.
- 36.11** All travelling and transportation expenses including air fares etc shall be borne by the Contractor for all his employees. The Contractor shall also bear air fare and other expenses for those employees sent back to their place on account of misconduct, disobedience, improper behaviour, sickness, unsatisfactory work or any other reason whatsoever.
- 36.12** Contractor shall arrange passports, wherever required, for all his staff and labour. BHEL will assist Contractor for issue of visas including multi-entry visas and other permits as per requirement for the job. However, the Contractor shall arrange for attestation of certificates and other documents required for travel arrangements, medical tests as applicable and comply with other formalities. All expenses for all these activities will be borne by the Contractor.
- 36.13** The delay in obtaining the passports and other travel documents or compliance with the various formalities for the deputation of the contractor's personnel shall not absolve the contractor from his obligations under the Contract including completion of the work strictly in accordance with the time schedule.
- 36.14** The Contractor shall in all dealings with persons in his employment have due regard to all recognised festivals, days of rest/weekly off, and religious or other customs in Sudan and shall make special arrangements whenever the exigencies of the construction program demand that work shall proceed during such festivals and days of rest.

- 36.15 The Contractor shall plan and schedule the activities on Site such that they happen strictly during the specified working hours.
- 36.16 The Contractor shall not otherwise than in accordance with Sudanese State Laws import, sell, give, barter, or otherwise dispose of any alcoholic liquor or drugs or any arms or ammunition to any person or persons whatsoever, nor permit or suffer any such importation, sale, gift, barter, or other disposal by his employees.
- 36.17 The Contractor shall submit a request to BHEL for issue of an identity card to each and every person employed at the Site by him along with passport size photographs and other documents as may be required for the purpose.
- 36.18 No person will be allowed to enter the project premises without an identity card. All identity cards will be surrendered by the Contractor to BHEL in respect of each person on completion of assignment of such person.
- 36.19 The Contractor shall deliver to BHEL before 10:00 hrs on each first working day of the week; a report in detail, in such form as BHEL or its Customer (M/s NEC) may prescribe, showing the supervisory staff and the numbers of the several classes of labour, from time to time employed by the Contractor on the Site.
- 36.20 The Contractor shall at all times take all requisite precautions and use his best endeavours to prevent any riotous or unlawful behaviour by or amongst the labourers and others employed by him for the purpose of or in connection with the Contract and for the preservation of the peace and the protection of the inhabitants and the security of property on or in the neighbourhood of the Site.
- 36.21 The Contractor shall in collaboration with, and to the requirements of, any duly constituted medical or sanitary authority, ensure that suitable arrangements are made on the Site for the maintenance of health, the prevention and overcoming of epidemics, and for adequate first-aid, welfare, and hygiene services.
- 36.22 The Contractor, his partners, foreign workers and employees and their families shall not be involved by any manner in any political activity during their residence in the Employer's country.
- 36.23 **COMPLIANCE TO REGULATIONS AND BYELAWS**
- a. The Contractor shall conform to the provisions of any statute relating to the work and regulations and bylaws of any local authority and of any water and lighting Companies or Undertaking with whose system the work is proposed to be connected. He shall, before making any variation from the drawings or the specifications that may be necessitated for such connections give the Engineer, notice specifying the variation proposed to be made and the reasons therefore and shall not carryout any such variation until he has received instructions from the Engineer in respect thereof. The Contractor shall be bound to give all notices required by statute, regulations or bye-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.
  - b. **The Contract shall be governed by the applicable Laws of Sudan Govt. and the bidders to ensure considering latest Sudanese Laws before quoting. If during Contract execution there may be any Change in such Law which might cause additional or reduced cost to the Contractor in the execution of the works such additional or reduced cost, if fully justified and approved by BHEL or its Customer (M/s NEC), shall be paid to or recovered from the Contractor , as the case may be.**
  - c. **The Contractor shall ensure conformance in all respects with the provisions of all state and local laws, regulations or other laws in force in Sudan or elsewhere including all regulations and by-laws of any local or other duly constituted authority within Sudan or elsewhere which may be applicable to the performance of the Contract and the rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the Works or any Temporary Works (which are herein referred to as "Laws"), and shall give all notices and pay all**

**fees required to be given or paid thereby and shall keep BHEL and/or its Customer (NEC) indemnified against all penalties and liability of any kind for breach of any of the same.**

- d. The Contractor shall comply with all applicable Sudan Government's safety and sanitary laws, transportation rules, regulations and ordinances, as well as the established safety rules and practices of BHEL's Customer (NEC). **The Contractor shall also provide insurance cover for his workmen throughout the contract period, under prevailing local Laws.**

### **37.0 FACILITIES TO BE PROVIDED BY BHEL/CONTRACTOR**

- 37.1** The Contractor shall during the progress of the work, provide, erect and maintain at his own expenses all necessary temporary workshops, stores, consumables, offices, etc. required for the proper and efficient execution of the work. The planning, setting and erection of these buildings shall have the approval of the Engineer and the Contractor shall at all times keep them tidy and clean and sanitary condition to the entire satisfaction of the Engineer. BHEL shall provide free of charge limited open space for office & storage shed, as and where made available by BHEL's customer. It is the responsibility of the contractor to construct sheds, provide all utilities and dismantle and clear the site after completion of work or as and when required, as a part of his scope of work. On completion of work or as and when required by BHEL, all the temporary buildings, structures, pipe lines, cables etc. shall be dismantled and leveled and debris shall be removed as per instruction of BHEL by the contractor at his cost. In the event of his failure to do so, same will be got done by the Engineer and expenses incurred shall be recovered from the contractor along with prevailing overhead. The decision of BHEL Engineer in this regard shall be final.
- 37.2** The Contractor shall be responsible for providing all necessary facilities like residential accommodation, transport, electricity, water, medical facilities etc. as required under various labour laws and statutory rules and regulations framed there under to the personnel employed by him. Land for construction of temporary accommodation for the contractor's personnel including labour colony shall be provided by BHEL free of cost. **This land shall be within/near plant boundary wall of the power station. The contractor shall at his own cost, provide temporary housing and / or camp accommodation for his site personnel, including proper sanitary facilities, canteen facilities etc. The contractor shall submit for prior approval of BHEL, plans for all such accommodation he proposes to erect before any construction commences. The contractor shall be responsible for all costs associated with any temporary housing and / or camp accommodation provided by him.**
- 37.3** **All temporary housing and camp accommodation shall be run and maintained by the Contractor in efficient condition in accordance with the laws in force in Sudan.**
- 37.4** **The sanitary facilities shall be kept in clean and orderly conditions to the approval of BHEL and public health authorities of Sudan. The Contractor shall comply with sanitary laws, regulations and ordinances of Sudan Govt.**
- 37.5** **BHEL shall provide Power supply at 240 V, 1 phase for labour colony free of charge at one point. Further distribution will be done by the Contractor. BHEL shall provide potable/drinking water supply for labour colony free of charge, at one point. Further distribution will be done by the Contractor at his own cost.**

- 37.6 The Contractor shall be responsible for providing adequate transport to and from the site for his own and his personnel who may be brought in daily from their living quarters or housing areas.**
- 37.7 Medical facilities available to BHEL staff shall be extended to Contractor's personnel, if possible. However, the Contractor shall bear all costs in respect of the Doctor's fees and all other expenses.**
- 37.8 The Contractor shall be fully responsible for the death or injury to any person employed by him for the purposes of or in connection with the execution of the Contract. The Contractor shall also provide insurance cover to all persons employed/engaged by him throughout the period of Contract under prevailing local laws.**
- 37.9 Construction power, for construction purposes will be provided free of cost and at one point near erection/construction site from supply point. Further distribution of power shall be done by contractor at his cost. All wiring must comply with local regulations and will be subject to BHEL's inspection and approval before connecting supply.**
- 37.10 Provision of distribution lines of power from the central points to the required place with proper distribution boards observing the safety rules laid down by the authorities of the state shall be done by the contractor, supplying all the materials like cables, distribution board, switch boards, TPN, CBS, ELCBS/ MCCBS / Copper / Brass clamps, copper conductor, change over switches pipes etc. at his own cost. If any failure is caused in supply of the power and water, it is the responsibility of the contractor to make alternate arrangements at his cost. The contractor shall adjust his working shift / hours accordingly and deploy additional manpower if necessary so as to achieve the targets
- 37.11 Following points should be strictly adhered to by the contractor while drawing construction power supply from Distribution Board

All electrical installations should be as per Sudan / International Electricity rules.

(b) All distribution Boards installed by the contractor should be constructed with fire proof materials viz. steel frames, bakelite sheets etc.

(c) Connection for single phase should be taken from phase and neutral. No where the connection should be taken with earth as neutral.

(d) All electrical connections should be made through connectors, nuts and bolts, switches, plug and sockets. Loose connections or hooking up of wires shall not be permitted.

Contractor have to make their own earthing arrangement for their equipment / DB earthing. Earthing connection have to be done with copper conductor and copper / brass clamps with BHEL's prior permission.

All electrical equipment / tools and plants should be properly earthed. DBs to be earthed diagonally opposite at two points.

Contractor should use "MCCB" and "ELCB" either on incoming or outgoing connections to the DBs.

(h) Contractor should ensure that all the CBs / TPNs / Fuses / MCCB / ELCB cables etc. should be of adequate rating/ capacity.

For permission of supply connections contractor has to submit a test report of their installations with a single line diagram of connected / proposed loads. Contractor will also submit a report on all electrical connected load by the 7<sup>th</sup> of every month.

ELCB will be tested once in a week or as deemed fit by BHEL Engineer by actually simulating the earth leakage for all installations and the same shall be recorded by BHEL Engineer in the log book to be maintained by the contractor.

In case of power cuts / load shedding no compensation for idle labour or extension of time for completion of work will be given to contractor.

**37.12 BHEL will make available water for construction/testing purposes close to the construction areas including potable/drinking water supply for site free of charge. Distribution within the plant area will be done by the Contractor at his own cost. BHEL will provide support and assistance to the contractor in arranging necessary connections with the local water supply authority. However, the contractor shall bear all cost on this account.** Contractor to satisfy himself that the water drawn by him is fit for construction / consumption and adequately treat such water at his cost when it is not found fit for the said purposes.

37.13 Though the contractor will be provided electricity and water free of charges at one point ,the contractor shall however ensure that there is no wastage . Periodical audits will be held to ensure that these resources are being optimally used .In case any wastage is observed , BHEL reserves the right to recover any charges /penalty as deemed fit to be decided by BHEL Engineer.

37.14 No claim for damages will be entertained by BHEL on account of interruptions of water supply or limitation of quantity of water as aforesaid or on account of the water so taken being not fit for construction purposes or on any other account in connection with such water supply

### **38.0 TIME SCHEDULE**

**38.1** The contractor is required to commence the work within 15 days from the date of issue of letter of intent (LOI) unless BHEL decides to fix any other later date. However, BHEL Engineer will certify the actual date of start of work after adequate mobilization of manpower, material handling equipment and other T&P by the contractor.

**38.2 Major materials as covered within the scope of this tender are likely to be received in stages up to 30 months from the actual date of start of work.** If the completion of work as detailed in these specifications gets delayed beyond the end of contract period (for the delay not attributable to the contractor), then depending on the balance works, BHEL at its discretion may extend the contract on existing, terms and conditions for a period of six months. The manpower and T & P deployment required during extended period will be mutually discussed & finalised at site.

The scope of work under this contract is deemed to be completed, when so certified by the Engineer.

### **39.0 PRICE VARIATION**

**39.1 The finally accepted rates for scope of work as defined in this tender shall be firm throughout the contract period.** NO PRICE VARIATION / COMPENSATION / OVER RUN on account of any increase whatsoever, (irrespective of whether escalation are steep/ unanticipated or not compensated by the above escalation provisions in full towards minimum wages, consumables, coarse / fine aggregates, steel , wood, electrodes, gases or any other item / reason) will be payable during the entire period of execution including extended period, if any.

## 40.0 TAXES & DUTIES

**40.1 The bidder shall quote their rates inclusive of all taxes/ duties applicable for this work, except otherwise expressly set forth herein or under clause no. 36.23 b of SCC. The Contractor shall be responsible for paying any and all Taxes/Duties assessed on the Contractor, its Sub-Contractor and Suppliers or their respective employees.**

40.2 Taxes as required to be deducted at source as per Local Sudanese Laws / Indian Law (applicable in case of Indian residents only), if any, at prevailing rates shall be deducted on gross invoice value from the running bills unless Exemption Certificate from appropriate Tax Authority is furnished

40.3 The payment of custom duty at Port of Sudan/Khartoum Air Port shall be paid by BHEL's customer M/S NEC, Sudan. However, this facility shall be available only for following category of items ( Refer clause no. 47.0 of the tender);

- For items imported for the project and which ultimately become the property of Customer (NEC) / gets consumed in the project
- For items imported for the project on repatriable basis.

Bidders may keep above in mind while quoting their rates

## 41.0 TERMS OF PAYMENT

**41.1** The 'Engineer' will certify regarding the actual work executed in the measurement books and bills, which shall be accepted by the contractor in measurement book.

**41.2** Contractor shall also submit bills for the work completed under the specification, once in a month detailing work done during the month. The format for billing shall be approved by BHEL before raising invoices.

**41.3** Shortage / damage reports on BHEL's standard materials management forms. No payment shall be released till the contractor submits these reports and are verified by the Engineer.

**41.4** Subject to any deduction which BHEL may be authorized to make under the contract, the contractor on the certificate of the Engineer at site be entitled for payment as explained hereunder.

### **41.5 Advance Payment**

- (a) 5% of the contract value shall be paid as interest bearing advance against submission of a Bank Guarantee for an equivalent amount. The interest chargeable shall be Prime Lending Rate of State Bank of India plus 2%.
- (b) The advance paid shall be recovered from the contractor's progressive bills to an extent of 10% of each progressive bill amount till it is fully recovered. The BG amount shall be allowed to be reduced every six months by an amount equal to the amount adjusted against running bills.
- (c) The BG shall be returned after full adjustment of the entire amount of advance along with interest .

**41.6 Progressive Payments**

**41.6.1 95% of the contract value** shall be paid progressively, based on payment stages as follows, against certification by the Engineer.

**41.6.1a 85 % (Eighty five percent) payment of the executed quantities** shall be released after customs clearance, transportation to site & unloading of material at site storage yards.

**41.6.1b 10 % (Ten percent) payment of the executed quantities** shall be released after the materials are duly shifted to desired location, properly stacked and verified by opening of cases / re-packing, wherever necessary. Payment will be released on submission of the information, as per material management forms by the contractor immediately after verification of materials as certified by the Engineer. The Engineer at site would supply the requisite Performa. The Contractor must ensure the stacking and verification of materials within 15 (fifteen) days from the date of unloading the materials in store, otherwise the same shall be done by engaging other agency on the risk and cost of contractor and decision of Engineer in this regard shall be final and binding on the contractor.

**41.6.2** The 2.5% of Final contract value (worked out based on actual work carried out) shall be payable on completion of all pending works (which shall also includes settlement of outstanding issues with Customs / NEC / BHEL, handing over of all mandatory spares & surplus plant material to NEC), site clearing and reconciliation of materials.

**41.6.3** The final 2.5% of final contract value (worked out based on actual work carried out) will be payable on submission and passing of Final bill. The decision of BHEL Engineer regarding passing of sums shall be final and conclusive against the contractor.

**41.7 MODE OF PAYMENT:**

- (a) Payments shall be made by cheque or bank transfer.
- (b) BHEL Engineer shall certify regarding the actual work executed in the measurement books in line with Clause 41.6.1. The contractor shall submit progressive bills for the works completed, once in a month. The Contractor shall be paid monthly running bill to a maximum of 95% of the value of the work actually executed on site provided the work has been executed to the satisfaction of the Engineer.
- (c) Any certificate relating to the work done may be modified by any subsequent interim certificates or by the final certificates and no certificate of the Engineer supporting an advance payment shall by itself be conclusive evidence that any work or materials to which it relates are in accordance with the contract.

**(d) Currency of Payment and Exchange Rate****(i) US DOLLAR Payment**

**85% of the Total Contract Price will be paid in US Dollars subject to Reserve Bank of India (RBI) / Govt. of Sudan guidelines.**

**(ii) Local Currency Payment**

**Balance 15% of the Total Contract Price will be paid in local currency (i.e. Sudanese Dinar) for the supplies and services carried out in Sudan.**

Exchange rate from one currency to another applicable for the entire period of contract including extended period, if any, shall be the rate prevailing on the date of opening of technical bid (Part-I). For conversion from US Dollars to Sudanese Dinar, buying rate of US Dollars as available on the website of Bank Of Sudan ([www.bankofsudan.org](http://www.bankofsudan.org)) on the date of opening of technical bids (Part-I), shall be considered and will be applicable for the entire

period of Contract including extended period, if any. If the date happens to be a holiday, the exchange rate of next working day will be considered

#### 42.0 RATE SCHEDULE

- 42.1** Contractor shall fully understand description and scope of work before quoting. The scope of work and responsibility of the contractor as mentioned under these specification shall be covered within the quoted / finally accepted rates.
- 42.2** The Tenderer shall quote the prices/rates for entire scope of work as per the rate schedule only, in part II price bid (Original). **Conditional price bids or price bids with any deviation are liable to be rejected. No cutting / erasing / over writing shall be done.**
- 42.3** Quantities mentioned in the rate schedules are approximate only and liable for variation. The tentative contract value (CV) for entire scope of work shall be calculated as per finally accepted item rates & the quantities indicated in Rate Schedule cum BOQ. The contractor has to handle whatever actual materials are dispatched for the project irrespective of any variations and **payments shall be released for the actual gross tonnage handled.** The quantities indicated against each item may vary to any extent and no compensation will be payable in variation of Individual quantity.
- However, in case of over all variation in final executed value (w.r.t the awarded value indicated in the LOI) beyond (minus) 30% i.e in case of reduction in executed value w.r.t awarded value, the contractor will be eligible for compensation as given in clause no. 34.3 of this tender.**

#### 43.0 LIENS

- 43.1** Each Contractor, for himself and for any persons directly or indirectly responsible to him, and for his or their material, equipment and employees; and for all other persons performing any labour or furnishing any labour or material for any/or all of the Work covered by his Contract, will be required to release or waive, to the full extent permitted by law, all mechanical and other liens, for or on account of the Work done or equipment and material furnished hereunder and the improvements or structures herein same may be incorporated, and the land to which they are appurtenant shall at all times be free and clear of all such liens.

#### 44.0 OTHER MISCELLANEOUS CONDITIONS

- 44.1 PACKING, MARKING AND TRANSPORTATION :** All equipment and material, together with the applicable instruction book, packing list, and special site storage instructions, shall be carefully boxed, crated, or otherwise adequately protected for overseas shipment by the Contractors.
- 44.2** The Contractor shall be responsible for the transport of the tools and plant and construction equipments for site work from their place of origin to the Site and more precisely to their exact point of utilization at the Site.
- 44.3** The Contractor shall take care that if the machinery is disassembled into components, the weight and size of which are in line with actual transport possibilities.
- 44.4** Within the limits imposed by law, the Contractor shall be entitled to utilise all the roads and other communication facilities existing in the country, to the same extent as any other user. BHEL and its Customer(NEC) shall assist the Contractor for obtaining licenses, permits, etc. from all the local authorities. However, all the expenditure on this account shall be borne by the Contractor
- 44.5** The Contractor shall repair or replace the Works lost, damaged, or destroyed, without waiting for the settlement of claims from insurance company to ensure completion in accordance with the Overall Project Schedule.

- 44.6** The Contractor shall be responsible for the safety and security of all the Works and shall replace promptly at Site each part of any and all Works which may be lost or damaged or destroyed due to fire, explosion, lightning, earthquake, theft, flood, storm, tempest, aircraft and other aerial devices or articles dropped therefrom, malicious damage, etc. and the actions of the BHEL or its Customer (M/s NEC) in the operation of appliances on behalf of the Contractor in case the contractor do not act from the date of arrival of equipment, plant, materials, machinery, etc. at the Site until Provisional Acceptance Certificate has been issued..
- 44.7** The Contractor shall repair or replace the Works lost, damaged, or destroyed, within shortest possible time at Site to ensure commissioning and operation of the Works without delay. If the Contractor shall fail to promptly replace or repair the Works damaged as per above clause, the Employer, at his discretion, will get such works repaired or replaced as the case may be and such costs will be reimbursed by the Contractor.
- 44.8 SECURITY DEPOSIT:** The contractor shall submit Security Deposit within 15 days from the date of issue of LOI as per clause no. 16.2 of the General Conditions of Contract (GCC). In case the contractor opts to furnish Bank Guarantee as a part of Security Deposit, the BG shall be issued as per the Performa enclosed as per Annexure-H of the GCC and also that the BG should be issued preferably through any of the Member Banks listed on Page No. 34(a) of the GCC. For BG through any other Nationalized Bank (Not covered in the list of Member Banks of GCC), the discretion of its acceptance shall lie solely with BHEL.
- 44.9** Offers received without data/ information required to be submitted under tender clauses- 11.1 to 11.11 are liable to be rejected. Documentary evidences should duly support all these data/ information.
- 44.10** No deviations to the tender conditions will normally be accepted.
- 44.11** The Tenderers are advised to physically visit the site and fully acquaint themselves with site conditions, transportation routes, various distances and the fact that other contractors would be working in this area, their structures are to be protected. The material brought and stacked for construction should not make hindrance to other contractors. **No claim will be entertained by BHEL on the ground of lack of knowledge and the contractor's rates shall be deemed to have taken this into account.**
- 44.12** Once the tenderer has quoted for the work, it is implied that he has ascertained various site conditions, transportation routes and distances, etc. as per above clause. No claim whatsoever will be entertained by BHEL on any such account.
- 44.13** The contractor in the event of this work awarded to him, shall establish a site office at site and keep posted an authorized, responsible officer who should hold a valid power of attorney.
- 44.14** In case of any contradiction between General Conditions of Contract (GCC) and Special Conditions of Contract (SCC), the latter shall prevail.
- 44.15** The clause Guarantee (Clause 32.0of GCC) is not applicable against this tender.
- 44.16 The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of pre-qualification evaluation / Techno-commercial bids. BHEL reserves the right to reject the bidders with unsatisfactory past performance in the execution of a contract. BHEL's decision in this regard shall be final & binding.**
- 44.17 Unsolicited rebate/discount shall not be accepted after bid opening.**

**44.18** No deviations to the tender conditions will normally be accepted.

## **45.0 INSURANCE**

Besides provisions under clause no. 29.0 of GCC regarding insurance, the following shall also be applicable. The contractor shall also take care of the same while submitting their offer.

- 45.1 BHEL / its customer shall arrange for insuring the materials of BHEL / its customer covering the risks during transit, storage, erection and commissioning.
- 45.2 If due to negligence/ carelessness on the part of the contractor, any material/ equipment gets damaged, the contractor shall submit necessary documents for lodging insurance claims as required by BHEL Engineer. BHEL shall however reserve the right to recover deductible franchise and also unsettled portion of insurance claim amount from the contractor.
- 45.3 If due to negligence/ carelessness on the part of the contractor, any surrounding properties also get damaged, the contractor shall submit necessary documents for lodging insurance claims as required by BHEL Engineer. BHEL shall however reserves the right to recover deductible franchise and to unsettled portion of insurance claim amount from the contractor.
- 45.4 **The Contractor shall provide insurance cover to all persons employed/engaged by him throughout the period of Contract, including the extended period, if any, under prevailing local laws.**
- 45.5 **Insurance for all materials pertaining to the Contractor(T&Ps, Construction Materials etc.) during transit, storage and during construction shall be in his (Contractor's) scope**

## **46.0 FORCE MAJEURE**

The term "Force Majeure" means any cause beyond the control of either party, which either party could not foresee and / or reasonably provide against and which prevents either party from performing his duties under the Contract. Force Majeure includes but is not limited to the following:

**War, revolution, insurrection, or hostilities (whether declared or not)  
Riots, civil commotion or civil uprisings (other than among Contractor's employees)  
Earthquake, flood, tempest, hurricane, lightning, or any other natural disaster.  
Any fire of major proportions, or explosions.**

**Strike, lockout, or other industrial disturbance other than among Contractor's employees.**

**If either party to this Contract because of a Force Majeure Event is rendered wholly or partly unable to perform its obligations under this Contract, other than the obligation of that party to make payments of money, that party shall to the extent provided in this Contract, be excused from the performance directly affected by the Force Majeure Event, provided that;**

- a) **The non-performing party, as soon as possible but in no event more than ten (10) business Days after it becomes aware of its inability to perform, shall declare that a Force Majeure Event has occurred and give the other party written notice of the particulars of the occurrence(s), including, without limitation, the nature, cause and date and time of commencement of the occurrence(s), the anticipated scope**

and duration of any delay, and any date(s) that may be affected thereby. If it is impracticable to specify the length of such delay at the time such notice is delivered, the non-performing party shall provide the other party with periodic (not less frequently than weekly) supplemental notices during the period the Force Majeure Event continues. Such supplemental notices shall keep such other party informed of any change, development, progress or other relevant information concerning the Force Majeure Event.

- b) The suspension of performance is of no greater scope and of no longer duration than is required by the Force Majeure Event.
- c) Obligations of either party which arose before the Force Majeure Event causing the suspension of performance are not excused as a result of the Force Majeure Event.
- d) The non-performing party immediately and continuously uses its best efforts to remedy its inability to perform with all reasonable dispatch.
- e) When the non-performing party is able to resume performance of its obligations under this Contract, that party shall promptly so notify the other party in writing.
- f) During and following the occurrence of any Force Majeure Event, Contractor and Employer each shall use its best efforts to minimize the delay and costs caused by such Force Majeure Event and shall continue actively and in good faith consider the need for and, when appropriate, execute a change order covering such event, which may result in the extension of such Guaranteed Taking-Over Date or / and additional cost

#### **47.0 CUSTOM DUTY & CUSTOM CLEARANCE**

47.1 Custom duty and demurrage (except in the cases as per clause 34.9) occurred in Port Sudan and Khartoum airport for all equipment, facilities and materials imported by the Contractor for the Project shall be paid by BHEL's Customer (M/s NEC). The contractor shall furnish list of all such items including their temporary imported equipments (temporary imported equipments to be defined and listed clearly) well in advance. However, custom duty, if any, paid by the Contractor for any reason whatsoever shall not be reimbursed.

47.2 BHEL or its Customer(NEC) shall be responsible for the custom clearance agency to clear out the Equipment, tools, materials imported (Plant Materials) and Contractor's equipment and vehicles temporarily imported for the Project as per Procedure given below at 47.2.1. However, the Contractor shall take all actions for co-ordination /chasing/follow up and bear all expenditure on his own for the same. The Contractor shall assist in custom clearance of all the materials and equipments falling in scope of this tender. A bank guarantee shall be issued by the Contractor, if necessary according to the custom authority for custom clearance. The Contractor shall submit all relevant dispatch/shipment documents to Project Coordinator- Sudan, BHEL, PSNR, NOIDA(UP)-India / Construction Manager, BHEL Site, Kosti TPP. The Contractor shall take delivery of materials at Port of Sudan and responsibility of handling (unloading/loading etc) and its transportation to Kosti Power Plant shall be of Contractor at their own cost. Payment of any Que/Quay dues at Port, will be the responsibility of the Contractor.

**47.2.1 CUSTOMS CLEARANCE PROCEDURE**

- (A) For all the supplies/ dispatches related to this Project, the consignee will be NEC, SUDAN and the name of supplier to be mentioned either as "BHEL" or "on account of BHEL". The Contractor will submit original + 7 copies of despatch documents to BHEL /BHEL's bankers after despatch of consignment from India.

BHEL bankers in India will forward these documents after necessary endorsement to Bank of Sudan in Sudan.

Bank of Sudan after stamping will send these original documents to NEC, Khartoum(BHEL's Customer).

- (B) The Contractor shall submit scanned / fax copies of documents such as invoice, packing list, certificate for country of origin, insurance, bill of landing etc to BHEL/ NEC, Khartoum after despatch of consignment from India.
- (C) NEC (BHEL's customer) at Khartoum will process the document and obtain certification from Sudan customs / Government for zero custom duty and payment exemption for all other applicable taxes, duties, levies etc.
- (D) NEC (BHEL's customer) at Khartoum shall forward these documents with certification to NEC-Port Sudan.
- (E) NEC (BHEL's customer) at Port Sudan after necessary clearance permit will hand over the documents to the Contractor through BHEL's representative/Transporter for taking delivery and transport to power plant site at Kosti. The Contractor will sign that he has received the consignment.

**47.3 In case the temporary imported equipment is not defined and listed by the Contractor, the responsibility of custom clearance and payment of custom duty/taxes shall lie with them. When it is produced at any time it shall be considered as part of this Contract ( i.e it will be considered as BHEL's Customer property).**

**47.4 Any demurrage incurred due to the reason of the Contractor's delay in unloading at the Port Sudan or airport shall be the Contractor's responsibility. Any other demurrage incurred during custom clearance for reasons other than those attributable to BHEL or its Customer (M/s NEC), shall also be borne by the Contractor..**

**47.5 For all the items like T&Ps, transportation / handling equipments, consumables, establishment items etc. to be exported by the Contractor to Sudan on repatriable basis, the Contractor shall furnish list and value of such items to BHEL prior to dispatch. The Contractor shall also give an undertaking to BHEL prior to dispatch declaring these items as returnable/consumable.**

**ANNEXURE - I****GENERAL IDEA OF WEIGHTS TO BE HANDLED**

The information given below is very tentative and not complete. Only a few of the typical components are listed below to give a general idea to the bidder. The weights and sizes indicated below are only approximate and are liable to vary. Items can be despatched in containers. Contractor has to take care of the same with no extra cost to BHEL. **Approximate total weight of material to be handled is 100,000 MT. General idea of some major components is as follows**

**A. Approximate total weight of material 100,000 MT**

**B General idea of some major components (single piece) to be handled ;**

S.No	Equipment	Size (LxBxH)mm	Unit weight (tons)
1.	Generator Transformer tank	16,000 x 9000 x 8,000	120
2.	Generator Stator		173
3.	Boiler Drum		90
4.	Generator Rotor		37
5.	HP-IP Module	6370 x 4360x3120	113
6.	L.P. ROTOR		27
7.	I.P. Valve		19
8.	H.P. Valve		12
9.	IP valve	4230x1350x4360	18.6
10.	Front bearing pedestal (K-turbine)	1700x2500x1435	9.0
11.	Rear bearing pedestal(K-turbine)	1600x3100x1610	9.6
12.	LP rotor	5510x2460x2460	26.4
13.	Upper LP inner casing-II (incl. Guide wheels)	2550x4960x1500	13.0
14.	Lower LP inner casing-II(incl. Lower LP inner casing-I & guide wheels)	2550x4960x1720	18.5
15.	LP Heater – 1	9500 x 1500 x 1500	1.8
16.	L.P. Heater-2	10000 x 1700 x 1700	9
17.	LP Heater – 3	9600 x 1700 x 1700	7.5
18.	Spray-Tray Deaerator		31
	a) Deaerating Heater	6700 x 2500 x 2600	10
	b) Feed water Storage Tank	16000 x 3800 x 4100	29
19.	HP Heater-5	11500 x 1700 x 1900	20
20.	HP Heater-6	11500 x 1700 x 1900	24
21.	Steam Jet Air Ejector (2 x 100%)	6000 x 4500 x 2500	105

**Notes:**

**1.** It may be noted that the above list is to give only a general idea for tenderer's information about the single piece weights and dimensions of some major components / equipments. The weights and dimensions shown are approximate and are liable to vary. No increase in quoted / accepted rate rates / prices shall be allowed due to change in weights and dimensions of the equipment / material.

**ANNEXURE-II****INDICATIVE LIST OF MAJOR T&Ps TO BE PROVIDED BY CONTRACTOR FOR EXECUTION OF TENDERED WORKS FOR MOST DURATION OF THE CONTRACT**

S.NO.	EQUIPMENT	QTY
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**AA: T & P required at site**

1.	Mobile Crane (18 MT)	1
2.	Mobile Crane (36 / 40 MT)	1

**BB : T & P required at Port of Sudan**

1.	Suitable capacity cranes	as per requirement
2.	Suitable capacity trucks /trailers with pulling unit	as per requirement

**NOTES:**

- The above list specifies only major T&Ps (may not be complete) to be deployed by the contractor and is based on minimum requirement. All additional / other tools and plants including suitable capacity D shackles, slings, rails sleepers hydraulic / mechanical jacks etc which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.
- Sleepers, rails, jacks, winches etc required for unloading of heavy consignment such as Boiler drum, generator stator etc, are also to be arranged by contractor at his own cost.
- For taking delivery of materials at Port after Customs Clearance, de-stuffing of containers (wherever required), loading on bidder's trailers / trucks for further transportation to site, **the Contractor shall deploy sufficient numbers (depending upon consignments received) of suitable capacity truck / trailers (including special trailers for heavy consignments mainly boiler drums, HP modules, HP heaters, LP rotors, generator rotors, generator stator assembly, Deaerator & Feed storage tank, transformer tanks etc) along with required cranes with slings & lifting tackles at the Port at his own cost.**
- Suitable capacity crane with slings & lifting tackles will also be provided (as & when required at site) by the Contractor at his own cost for unloading of heavy consignments** (mainly boiler drums, HP & IP modules, HP heaters, LP rotors, generator stator and rotors, generator stator assembly, Deaerator & Feed storage tanks, transformer tanks etc), **which can not be unloaded / handled by 36 /40 T crane** to be deployed by contractor. **The Contractor shall ensure availability of these suitable capacity cranes for timely unloading of these consignments as & when brought from Port of Sudan.**
- All other terms & conditions shall be as per tender clause no. 35.

**ANNEXURE-III**

**CERTIFICATE OF DECLARATION FOR CONFIRMING THE KNOWLEDGE OF SITE CONDITIONS**

We,.....  
..... Hereby declare and confirm that we have visited the  
project site under the subject namely,  
.....and acquired full knowledge and  
information about the **site conditions, wage structure, Industrial  
climate and total work involved**. We further confirm that the above  
information is true and correct and we will not raise any claim of any  
nature due to lack of knowledge of site condition.

Tenderers Name and Address

Place:

(Signature of the Tenderer with stamp)

Date:

**ANNEXURE-IV**

**NON DISCLOSURE AGREEMENT  
Memorandum of Understanding**

BHEL PSNR is committed to Information Security Management System as per Information Security Policy.

M/s....., providing.....service to BHEL PSNR, Noida hereby undertake to comply with the following in line with Information Security Policy of BHEL PSNR;

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL PSNR.

( )  
M/s. BHEL, PSNR

( )  
M/s.....

**RATE SCHEDULE**

<b>Sl. No</b>	<b>DESCRIPTION OF WORK</b>	<b>Rate in USD (In figures and words)</b>
1	<p><b>Rate in USD per MT for entire scope of work, as detailed in this tender specifications,</b> consisting of receiving &amp; handling of plant materials and other equipments from hook of shipping vessels at Port of Sudan, Port clearance, co-ordination with local Custom / other Authorities of Government of Sudan / Customer The NATIONAL ELECTRICITY CORPORATION (NEC), Sudan and / or their Consultant M/s. Fichtner, obtaining necessary clearances, unloading at Port, loading at carriers, releasing of containers (wherever required), lashing / anchoring as per drawings / directives of BHEL, safe &amp; expeditious transportation to site stores including complete safe unloading and trans shipment arrangements, wherever required, unloading at site stores, stacking &amp; preservation ( including supply of preservatives) as required.</p> <p><b>(Approx. tonnage to be handled 100,000 MT)</b></p>	

**NOTES:**

1. Bidders are required to quote for all the items given in the Rate Schedule. It may be noted that for evaluation purposes and for working out contract value BHEL will multiply the rate quoted with the quantity (Approximate tonnage) mentioned against each item.
2. These rates shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER OF THE TWO will be treated as valid rate.

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(Seal and signature of Tenderer)