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TENDERER'S COPY ORIGINAL COPY

# TENDER SPECIFICATION

## TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617

#### **FOR**

Rate Contract for Project Inspection Services at 4x125 MW Kosti TPP, Sudan for Field Quality Assurance and Civil Laboratory during erection, pre-commissioning and commissioning stages of various packages/equipments.

PART I – TECHNICAL BID



भारत हैवी इलेक्ट्रिकल्स लिमिटेड 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



**SubContract and Purchase Deptt.** 

बीएच ई एन

भारत हैवी इलेक्ट्रिकल्स लिमिटेड

# **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
Phone: 0120-2515476/ 2416407/ 2515479
Fax: 0120-2515464/ 2515467
Email: sku@bhelpsnr.co.in/ rb@bhelpsnr.co.in

TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617

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

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Email: sku@bhelpsnr.co.in/ rb@bhelpsnr.co.in

## **TENDER NOTICE**

Sealed tenders are invited from the contractors fulfilling qualifying requirements for the "Rate Contract for Project Inspection Services at 4x125 MW Kosti TPP, Sudan for Field Quality Assurance and Civil Laboratory during erection, pre-commissioning and commissioning stages of various packages/ equipments."

#### BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617

#### **QUALIFYING REQUIREMENTS:**

"Tenderers who wish to participate should have contracts for deploying FQEs for at least 300 man months in the preceding 7 years (ending on 24.02.09). The tenderers shall submit Work Orders from clients in support of the same."

#### NOTES:

- (i) The Tender Documents comprise of following;
  - (a) General Conditions of Contract, Special Conditions of Contract, Tender Notice, Project Synopsis etc.
  - (b) Price Bid
- (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. 1,000/- (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 30.03.2009 on payment of Rs. 1,000/- (non-refundable) either in cash or by crossed demand draft in favour of BHEL, NOIDA. Request for issue of tender document should clearly indicate Tender No. and work.

- TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617
  (iii) Tenders must be submitted to the undersigned latest by 30.03.2009 before opening of technical bids commences. Technical bids shall be opened at 15.30 Hrs. on 30.03.2009.
- (iv) Earnest Money Deposit (EMD): Refundable, Non-interest bearing **EMD of Rs. 1,50,000/-** shall be deposited by Account Payee Pay Order 'OR' Demand Draft in favour of "Bharat Heavy Electricals Limited" payable at Delhi/ NOIDA. 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.
- (v) Tenders not accompanied with Full Earnest Money Deposit, as indicated above, will not be considered.
- (vi) 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.
- (vii) BHEL reserves the right to go for a Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation. As such, the bidders should submit their best prices in the 'Sealed Price Bid'. However, bidders are required to confirm their acceptance of "General terms and conditions" governing RA specifically in their technical bid. The "General terms and conditions" governing RA are given in the SCC of the NIT. Bidders are also required to furnish following details in their techno-commercial bid, for this purpose (RA).

Authorization of representative who will participate in the on line Reverse Auction Process:

- a) Name and Designation of official
- b) Postal Address
- c) Telephone Nos. (Land line & Mobile both)
- d) FAX No.
- e) E-mail address

Name of Place/ State/ Country, wherefrom he will participate in the RA

- (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.

DGM/SCP



ISO 9001-2000, ISO 14001 and OHSAS 18001 certified company SubContract and Purchase Deptt. भारत हैवी इलेक्ट्रिकल्स लिमिटेड

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## DOMESTIC NOTICE INVITING TENDER

LAST DATE OF SALE : 30.03.2009
DATE OF OPENING : 30.03.2009

#### NIT NO. / NAME OF WORK

#### TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617

Sealed tenders are invited from the contractors fulfilling qualifying requirements for the "Rate Contract for Project Inspection Services at 4x125 MW Kosti TPP, Sudan for Field Quality Assurance and Civil Laboratory during erection, precommissioning and commissioning stages of various packages/ equipments."

#### NOTES

- 1. Purchase Preference will be given to CPSU as per Govt. Guidelines.
- 2. Please visit our website at www.bhel.com for details of NIT including Qualifying Requirements.

DGM/SCP

## **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 tempurature : 45° C(b) Minimum ambient tempurature : 16° 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.

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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.

#### **SECTION-I**

## GENERAL INSTRUCTIONS TO TENDERERS

- 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.
- 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 is 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.
- 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 at once contact the authority inviting the tender for clarification before the submission of the tender.
- 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.
- 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.
- 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.
- 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.

- 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 this 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 thereof 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.
- **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.
- 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.
- 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.
- 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.
- 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. 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 proforma.

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 include 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 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 specification.

- 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 there of.
- 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.
- 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.
- 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 affecting the recoveries due from the contractor.
- 24.5 All recoveries due from the contractor for the month/ period shall be affected 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 re-measurement 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 affect 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 any body 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 cannot 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.:

- 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/ re-qualification 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 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 payroll 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 affecting 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.

# 26.2.1 RESPONSIBILITIES OF CONTRACTOR IN RESPECT OF SAFETY OF MEN, EQUIPMENT, MATERIAL AND ENVIRONMENT.

- 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 its 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.
- 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.
- All electrical equipment, connections and wiring for construction power, its 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 lumbers 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 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 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.
- 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.



## 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.

# 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 T&P like of Tractor Tr Winches, which was supported by Contractor	eranes, ailors, welding	Consumables by whom
8	9	10	11	12	13	14

(SIGNATURE OF TENDERER) WITH STAMP

# MONTHWISE MANPOWER DEPLOYMENT PLAN

S.No.	Catetory	No. of Person	Month (Indicate No. of persons to be deploy						each month)
		available on roll of the Orga- nasation	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	C	Documents enclosed for proof of Ownership	Quantity proposed to be deployed for this job

# (B) MONTHWISE T&P DEPLOYMENT PLAN

S.No. Description of T & P		(Indica	ate No.	Montle to be d	-	ed in ea	ach mo	onth)	
	Ist	$2^{\text{nd}}$	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7th	8 <sup>th</sup>	and so on

(SIGNATURE OF TENDERER) WITH STAMP

# **ANNEXURE - E**

# ANALYSIS OF UNIT RATE QUOTED

THE UNIT RATE QUOTED	S.NO. DESCRIPTION		REMARKS	
QUUIZD		QCOTED		

- 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

# **DECLARATION SHEET**

I,	hereby	certify	that,	all	the
information and data furnished by me with regard to the	his Tender	Specifica	tion No	)	
through the specification, conditions and stipulations the requirements and intent of specification.	•		_	_	
I, further certify that I am the duly authorised repr tenderer and a valid power of attorney to this effect is			nder m	entio	ned
Tenderer's Name & Address					
Authorised representative's signature with name and a	ddress.				

#### CHECKLIST AND SCHEDULE OF GENERAL PARTICULARS

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

- 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 clause11.7 (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	
byexpression shall unle its successors and as India Undertaking) a registered office at E at Power Sector – N called "The Compa	ess repugnant to the containing signs) in favour of M/s a company incorporated BHEL House, Siri Fort, A orthern Region, Noida,	after called the "The Guarantor" (which ext or meaning thereof be deemed to include Bharat Heavy Electrical Limited (A Govt. or under the Companies Act, 1956, having its Asiad, New Delhi – 110 049 through its uni Distt. Gautam Budh Nagar, (UP) hereinafter shall unless repugnant to the context of excessors and assigns)
the Contractor) have	entered into a contract a einafter referred to as "t	(hereinafter referred to assarising out of Letter of Intent nohe contract") for the construction of
to the company a sur	n of Rsosit for due and faithful	alia provides that the contractor shall furnish —— (Rupees———————————————————————————————————

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 forebear 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 not withstanding 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-----, 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 document 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.

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### LIST OF MEMBER BANKS

- State Bank of India CAG Branch, 10<sup>th</sup> Floor, Vijaya Building, Barakhamba Road, New Delhi – 110 001.
- Canara Bank
   Janpath,
   New Delhi 110 001.
- Punjab National Bank,
   74, Janpath,
   New Delhi 110 001.
- Bank of Baroda, Corporate Banking Branch, 11<sup>th</sup> Floor, BOB Building, Sansad Marg, New Delhi – 110 001.
- 5. State Bank of Hyderabad, Surya Kiran Building, K.G. Marg, New Delhi – 110001.
- 6. State Bank of Mysore, Antriksh Bhawan, K.G. Marg, New Delhi – 110001.
- State Bank of Mysore,
   Industrial Finance Branch,
   Ramanashree Arcade,
   M.G. Road, Bangalore 560 001.
- 8. State Bank of Travancore, Travancore House, IF Branch, K.G. Marg, New Delhi – 110 001.
- 9. Deutsche Bank, Tolstoy Marg, New Delhi – 110 001.

- HDFC Bank Ltd.,
   5<sup>th</sup> Floor, HT House,
   K.G. Marg,
   New Delhi 110 001.
- Citi Bank N A
   Jeevan Vihar Building,
   Sansad Marg,
   New Delhi 110 001.
- Standard Chartered Bank,
   H2 Block, Connaught Place,
   New Delhi 110 001.
- 13. ICICI Bank Ltd., ICICI Tower, Bisham Pitamah Marg, Pragati Vihar, New Delhi – 110 003.
- IDBI Bank Ltd.,
   K.G. Marg,
   Surya Kiran Building,
   New Delhi.
- 15. HSBC Ltd., ECE House, 28 KG Marg, New Delhi – 110 001.

# **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 THISDAY OF2000 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/sstate 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 contracto submitted their offer NoAnd
whereas BHEL has accepted the offer of the Contractor on terms and conditions specified in the Letter of Intent Noread 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 ofand more particularly described in Tender Specification Noincluding 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, Lette

	of Intent datedand 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 nodatedfor a sum of Rsexecuted by in favour of BHEL towards Security Deposit valid upto OR
	The Contractor has furnished to BHEL an initial Security Deposit of Rsin the form of cash/ approved Securities/ B.G No dated for Rsexecuted 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

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

recovered.

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 Octoroi, 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 provisions in the Letter of Intent s	d other documents governing this Agreement, the shall prevail.
16. The following documents	
and the documents specified therein	
<ol> <li>4</li> <li>5</li> </ol>	
6. Letter of Intent No dated 7shall also form part of and govern t	
IN WITNESS HEREOF, the parties he presence of	ereto have respectively set their signatures in the
WITNESS 1.	(CONTRACTOR) (to be signed by a person holding a valid Power of Attorney)
2.	
WITNESS 1.	(For and on behalf of BHEL)
2.	

### 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)

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

### 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 In-charge 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**

### RELEVENT 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 HEALT	H, SAFETY & ENVIR	RONMENT (F	ISE) PLAN			
PROJECT: -		CONTR	ACTOR:			
DATE:		OWNER:	·			
(To b	be prepared by each con	nstruction Age	ency)			
	PROCEDURE/ W.I/ GUIDELIES			MING FUN		AUDIT FUNCTION
DESCRIPTION	W.I/ GOIDELIES	MANCE		CHECK-	APPRO-	CUSTOMER REVIEW AUDIT REQUIREMENT

REVIEWED BY

PREPARED BY

APPROVED BY

(RESIDENT ENGINEER)

PROJECT:	- CONTRACTO	)R:			
DATE:	OWNER:				
INSPECTION BY:					
Note: Write 'NA' wherever the item	n is not applicable	e.			
ITEM	YES	NO	REMARKS	ACTION	

## **HOUSE KEEPING**

Waste containers provided and used

Sanitary facilities adequate and clean

Passageways and Walkways Clear

General neatness of working areas

Others

# PERSONNEL PROTECTIVE EQUIPMENT

Goggles: Shields

Face protection

Hearing protection

Safety Shoes provided

Hand protection

Safety Belts

# **EXCAVATIONS/ OPENINGS**

Openings properly covered or barricaded

Excavations shored

Excavations barricaded

Overnight lighting provided

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

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

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

TTEM 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

### **VECHICLE AND TRAFFIC**

Rules and regulations observed

Inspection and maintenance

Licensed drivers

## MONTHLY HSE CHECKLIST CUM COMPLANCE REPORT (Contd.4/6)

ITEM	YES	NO	REMARKS	ACTION	
	ILD	110	ILLIVIANIS	ACTION	

## TEMPORARY FACILITIES

Emergency instructions posted

Fire extinguishers provided

Fire-aid equipment available

Secured against storm damage

General neatness

In accordance with electrical requirements

Other

### FIRE PREVENTION

Personnel instructed

Fire extinguishers checked

No smoking in Prohibited areas

Hydrants Clear

Other

### **ELECTRICAL**

Proper wiring

ELCB's provided

Ground fault circuit interrupters

Protection against damage

Prevention of tripping hazards

# MONTHLY HSE CHECKLIST CUM COMPLANCE REPORT (Contd.5/6)

ITEM	VEC	NO	REMARKS	ACTION	
II EM	IES	NO	REMARKS	ACTION	

#### HANDLING AND STORAGE OF MATERIALS

Properly stored or stacked

Passageways clear

Other

## FLAMMABLE GASES AND LIQUIDS

Containers clearly identified

Proper storage

Fire extinguishers nearby

Other

### **WORKING AT HEIGHT**

Erection plan

Safety belts and lanyards; chute lines

Other

### **ENVIRONMENT**

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	
111211	LLD	110	ILLIVII IILIXD	11011	

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: SITE-IN-CHARGE/BHEL

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

	Report :
Name of Site:	Date:
CONTRACTOR	
NAME OF THE INJURED	
SUB-CONTRACTOR M/S	
BRIEF DESCRIPTION OF ACCID	DENT
CAUSE OF ACCIDENT	
NATURE OF INJURY/ DAMAGE	
MEDICAL AID PROVIDED/ACTION	ONS TAKEN
INTIMATION TO LOCAL AUTHO	ORITIES
DATE:	SIGNATURE OF CONTRACTOR WITH SEAL

1 COPY

# 4.0 SUPPLEMENTARY ACCIDENT & INVESTIGATION REPORT

	_Supplementary to Report No
	(Copy enclosed)
Site:	Date:
CONTRACTOR	-
NAME OF THE INJURED	
FATHER'S NAME	
SUB-CONTRACTOR M/S	
LOCATION	
BRIEF DESCRIPTION & CAUSI	E OF ACCIDENT
NATURE OF INJURY/ DAMAGE	E
COMMENTS FROM MEDICAL VICTIM/ INJURED	PRCTICETIONER, WHO ATTENDED THE
SUGGESTED IMPROVEMENT	IN THE WORKING CONDITION, IF ANY
LOSS OF MANHOURS AND IM	PACT ON SITE WORKS
ANY OTHER COMMENT BY SA	AFETY OFFICER
DATE:	SIGNATURE OF CONTRACTOR WITH SEAL
TO: SITE-IN-CHARGE/BHEI	L 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:	Repo	ort No	
Name of the Contractor:	Stat	us as on:	
Name of Work:	Nan	ne of safety	y officer
		MONTH	CUMMULATIVE
Total Strength (Staff + Workmen)			
Number of HSE meetings organized at site			
Number of HSE awareness programmes Attended at site			
Whether workmen compensation policy taken	ı	Y/N	
Whether workmen compensation policy is val	lid	Y/N	
Whether workmen registered under ESI Act		Y/N	
Number of Fatal Accidents			
Number of Loss Time Accidents (Other than I	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 world	kmen		
Remarks			
Date		•	ficer/ Resident Engineer ignature & Name)

1 COPY

To: SITE-IN-CHARGE, BHEL

54

# Special Conditions of Contract and Scope Of Work

- 1.0 Scope of Work for Services of Field Quality Assurance Engineers and Civil Laboratory Assistants at Kosti TPP, Sudan.
- 1.1 The scope shall include services of Field Quality Assurance Engineers (FQEs) and Civil Lab Assistants at BHEL construction site at Kosti Sudan for discharging tasks as laid down in relevant Management Systems and procedures (like Quality Assurance Manual/ Standard Procedures/ Departmental Procedures pertaining to ISO 9001 etc.), approved field quality plan, check lists and general engineering practices pertaining to material, stage and final checks, non destructive testing etc. during erection, pre-commissioning and commissioning of various packages/ equipments in the scope of BHEL.

### Field Quality Assurance Engineers

1.2 Various packages/ equipments for which services of FQEs is required, include but are not limited to broad areas of Constructions as given below:

### 1.2.1 Civil Works

Civil Works generally consists of but is not limited to the following Structures/ Packages

- Main Power House (TG & AUX Building/ Service Building), TG foundation, Boiler foundations, ESP foundations, Equipment and Machine foundations, Mill bay foundations and super structures, Transformer yard, Misc. foundations, pavements, Switchyard, Roads & Drainage etc.
- Auxiliary Buildings like Cooling Water Pump House, Raw Water Pump House, CW Duct, ESP Control Room, Chlorination Plant Building, Compressor House, DG Building, Clarified Water Pump House & Sump, Filtered Water Pump House, DM Make up Pump House, Administrative Building etc.
- Civil Works for BOP Package like Ash Handling Plant, Coal Handling Plant, Pre-Treatment Plant, DM Water Treatment Plant, Effluent Treatment Plant Building, Cooling Towers, and Chimney etc.

### 1.2.2 Fabrication & Erection of Steel Structures

Fabrication & Erection of Steel Structures generally consists of but is not limited to the following

Site Fabrication of Structures

Erection of pre-fabricated (at Manufacturing Units) and Site Fabricated
 Steel Structures

# 1.2.3 Erection & Commissioning of Boiler & Auxiliaries

Erection & Commissioning Boiler & Auxiliaries generally consists of but is not limited to the following

- Boiler Supporting Structures
- Pressure Parts, ESP, Ducts & Dampers/ Gates
- Rotating Machines like Forced Draft Fan, Induced Draft Fan, Primary Air Fan
- Coal Mills, Coal Feeders, Air Pre-heater, Valves & Soot Blowers, Fuel Firing System
- High Pressure Piping etc.

### 1.2.4 Erection & Commissioning of Electrical and C & I Systems

Erection & Commissioning Electrical and C & I Systems generally consists of but is not limited to the following

- Electrical Systems mainly consist of Power Transformers, Auxiliary Transformers, LT Switchgears, HT Switchgears, LT Bus Ducts, HT Bus Ducts, HT Motors, and Switchyard etc.
- C & I System mainly consists of field mounted instruments like transducers, transmitters, gauges etc., analyzers, control valves, electrical & pneumatic actuators, DDC/ PPC based control panels etc.
- 1.2.5 Erection & Commissioning of Turbine, Generator and auxiliaries

This package mainly consists of but is not limited to erection and commissioning of Steam Turbine/ Gas Turbine, Generators, Heat Exchangers, Pumps, and LP Piping etc.

- 1.3 Scope of work of FQEs, deployed at site, for areas mentioned at 1.1 above shall include but will not be limited to the following
  - 1.3.1 Witnessing on behalf of BHEL for sample checking of raw materials/ inputs (consisting mainly of steel plates/ steel sections/ other steel material, cement, sand, stone chips, bricks etc.) as per related FQPs, procedures, IS and other national/ international codes/ standards. This shall include inspection of materials on receipt at site and verification of test certificates.
  - 1.3.2 Witnessing, verification and approval of welders certification, in process and final inspections/ tests including non destructive tests (which are generally performed by respective erection agency) as per approved

- Field Quality Plans (FQPs), applicable Manuals/ procedures and related IS and other national/ international codes/ standards.
- 1.3.3 Review of inspection & test reports for the checks which are not under witness category as per FQP and conducting periodical quality surveillance audits at various stages of erection & commissioning and finally on completion of work as per the approved field quality plans.
- 1.3.4 Collection and compilation of various log sheets/ test results/ reports for checks performed as at Sr. No. 1.2.1 to 1.2.3 above, certification/ authentication of test results/ reports, and submitting them to customer/ consultant in requisite format.
- 1.3.5 Conducting periodical quality surveillance audits at the site office of subcontractors of BHEL to ensure for valid calibration of monitoring/ measuring instruments & devices and testing equipments.
- 1.3.6 Proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems.
- 1.3.7 Resolving site Quality problems on day to day basis. Rendering assistance during discussions among BHEL Erection/ Commissioning Engineers, Customers/ Consultants, and Vendors/ Sub-contractors in the event of corrective actions/ reworks related to the scope of work.
- 1.3.8 Planning and informing BHEL Erection/ Commissioning Engineers regarding requirement of testing arrangements etc. based on schedule of work-flow.
- 1.3.9 Coordination with sub-contractor, vendor, consultant/ customer on matters related to Quality including joint inspection/ checks wherever applicable and clearing of customer hold points.
- 1.3.10 Preparing and submitting periodic reports after scrutinizing the results about their findings, test results and making recommendation for corrective action during the course of the work.
- 1.3.11 Submitting Monthly Progress Report/ MIRs in requisite formats to BHEL Construction Manager and to BHEL Head Quality at BHEL-PSNR NOIDA.
- 1.3.12 Verifying bills of sub-contractors with regard to compliance of stipulated quality requirements based on inspection/ test reports.
- 1.3.13 Raising of Non- Conformance reports (Site Deficiency Reports- SDRs), Suggesting short term and long term remedial measures for rectification/ elimination of defects/ non-conformities observed at sites.
- 1.3.14 Undertaking and facilitating improvement activities and providing necessary support services to BHEL site management in preparation for ISO/ TQM/ HSE activities.
- 1.3.15 Any other work assigned from time to time.

### **Civil Laboratory Assistants**

The scope of work of a civil laboratory technician may be categorised as follows:

### 1. Test Sample Collection as per FQP/ Codes

 Collection of test samples of Construction Materials as per Sampling protocols, standard nomenclature, Amount and Count of samples as per **TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617** relevant codes, packing, sealing, reference making and shifting samples to Site Laboratory. The procedure to be followed shall be as per FQP/ IS Code/ ASTM.

# 2. Field/ Lab Testing of Samples

- Testing of samples under controlled laboratory conditions viz. concrete cubes, soil samples, aggregates, sands, cement, construction water, etc. collected from site as per relevant FQP/ Codes.
- In situ testing of samples viz. paint thickness, NDT (especially UPV Test & Rebound Hammer Test), Moisture measurements, ambient temperature, concrete slump, etc at approved & identified locations as per relevant FQP/ Codes

### 3. Maintenance of T&P, IMTE's

- Keeping all Laboratory Equipments, accessories, T&P, IMTE's in functional, proper, safe and secure conditions. Maintaining stock of consumables as required at site and their proper storage.
- Regular Calibration of Laboratory Equipments, accessories, T&P, IMTE's
- Disposal of tested/ used samples or proper storage if required for future reference.
- Safe handling & carriage of Laboratory Equipments, accessories, T&P, IMTE's when taken to site and back.

### 4. Test Record Keeping

- Preparation of test reports as per relevant FQP/ Codes in required formats/ protocols.
- Furnishing test reports and filing copies of reports as required in a professional and approved manner.
- Maintaining test report archives for easy retrieval.
- Preparing and submitting periodic reports of tests carried out with test results.
- Any other work assigned from time to time.

# 2.0 Qualifications, Experience, Age & Medical/ physical fitness of Quality Assurance Engineers and Civil Lab Assistants:

### 2.1 Qualifications

### **Quality Assurance Engineers**

- 2.1.1 Mechanical & Civil, Quality Assurance Engineers (FQEs) shall be qualified Engineering degree holders. Depending upon the deployment and scope of work, branch of Engineering shall be Mechanical Engineering, Power Plant Engineering, Civil Engineering.
- 2.1.2 NDT, Quality Assurance Engineers (FQEs) shall be minimum a qualified diploma holder with additional ASNT/ ISNT level II certificate in Radiographic Testing.

### **Laboratory Assistants**

Lab Assistants shall be qualified ITI or Diploma in Civil Engineering or Graduate in Science stream.

### 2.2 Experience

### **Quality Assurance Engineers**

Graduate Engineers shall have minimum 5 years experience and Diploma holders minimum 7 years experience in the relevant field of deployment. Depending upon the deployment, experience of FQEs shall include but not be limited to areas and details given below.

- 2.2.1 In general, the experience of FQEs shall be in the field of Quality Assurance, Inspection/ testing of Power Plant Equipments and in inspection and testing of areas pertaining to scope as mentioned at clause numbers 1.0 above.
- 2.2.2 Good knowledge of power plant products, product Quality Plans, field quality plans, codes, standards, statutory requirements, inspection and test procedures of Power Plant equipments and systems mentioned at clause 1.0 above including materials, various type of welding and their inspection & testing etc.
- 2.2.3 Knowledge of ISO 9001, ISO 14001, OHSAS 18001 standards, TQM
- 2.2.4 Hands on experience of
  - Preparing quality plans
  - Undertaking inspections of installation of power plant equipments (like fabrication, boilers, turbines, piping, MCC, electrical switch boards/ panels, transformers, cabling, C & I Systems, Civil structures etc.) in the areas as given at 1.0 above.
  - Working on computers especially in MS Word & Excel.

### **Laboratory Assistants**

Lab assistants shall have minimum 5 years experience in the relevant field of deployment and shall have sufficient knowhow of Non Destructive testing of Concrete Structures (especially UPV Testing and Rebound Hammer Test).

## 2.3 **Age**

### **Quality Assurance Engineers**

For

- FQE CIVIL, age limit is 60 Years.
- FQE Mechanical, age limit is 60 years
- FQE NDT, age limit is 50 years

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Laboratory Assistants

Age limit is 65 Years.

2.4 **Medical & Physical fitness:** All the FQE deployed to site should be medically and physically fit to undertake inspection jobs at site. The Mechanical & NDT FQE should be fit to undertake jobs even at heights, in the Boiler.

## 3.0 Special Conditions of Contract

- 3.1 FQEs and Lab Assistants shall be governed by 'Confidentiality' clause. They shall not, in any manner, misuse the data/ information. They are to abide by Local Govt. statutory regulations and inform themselves of local state requirements. They are to coordinate in association with BHEL and customer's engineers at site. They are also to follow Health, Safety and Environment (HSE) regulations in force at project.
- 3.2 Names/ Passport details with passport validity of at least 1 year to be identified in advance and request moved for invitation letter from NATIONAL ELECTRICITY CORPORATION, KHARTOUM, SUDAN (CUSTOMER) well in advance. Visa grant from SUDANESE embassy may take 2-4 weeks time
- 3.3 All visa fees/ Medical fees to be borne by vendor. However, BHEL shall guide/ assist vendor to obtain respective travel visa.
- 3.4 Medical: Vendor to arrange for medical insurance coverage for their representative. First aid medical facilities as available at Kosti TPP site Sudan shall be extended.
- 3.5 Deployment Schedule: Deployment need to be planned in phased manner depending upon the progress of works at Kosti TPP site. Further review meetings shall be held at site to discuss work progress and deployment programme
- 3.6 Personnel deputed to site shall be an expert in their field/ responsible for direct execution of field activities. They should be able to interact with their parent division at their HQ for any Guidance/ Clarifications etc.
- 3.7 Protocols & Logsheets of FQPs for erection/ commissioning shall be signed by the FQE at Kosti TPP, Sudan after witnessing & review of the documents.
- 3.8 Under force majeure conditions applicable to BHEL engineers, FQEs and Lab Assistants shall be repatriated at BHEL's cost.
- 3.9 Rates quoted/agreed shall remain firm till the completion of the contract.
- 3.10 All drawings, specifications/ FQP/ QP and other relevant document/ data provided to FQEs and Lab Assistants for undertaking relevant tasks, shall be returned to BHEL after completion of job/ completion/ termination of contract. Such documents shall not be used by the FQEs and Lab Assistants for any purpose other than for the designated task.
- 3.11 All Quality Plans, data/ findings, inspection and other reports, test results, radiographs etc. generated/ used by the FQE and Lab Assistants shall be the property of BHEL. These can not be published/ utilized or taken away by the FQE or any staff of the Contractor.

- 3.12 All measuring & testing Instruments/ equipments will be arranged by BHEL/ erection agency working at site. Quality Assurance Engineers and Lab Assistants shall undertake visual/ physical checking of instruments and corelation with valid calibration certificates before using any measuring & testing instruments/ equipments. They shall be responsible for use of calibrated MMDs.
- 3.13 Quality Assurance Engineers and Lab Assistants shall be fully responsible for the tasks undertaken by them, authenticity of the test results etc. They shall prepare documents, undertake inspections and submit the documents/ reports to BHEL in time without hindrance of work.
- 3.14 Credentials of FQEs and Lab Assistants shall be approved by BHEL PSNR and/ or its customer prior to their deployment at BHEL sites. If required, contractor has to arrange for interview of the candidates by BHEL.
- 3.15 FQEs and Lab Assistants at site shall report to Construction Manager.
- 3.16 FQEs and Lab Assistants shall interact with vendor, customer/ consultant, erection agencies with regard to readiness of items to be inspected and other relevant Quality matters. They shall keep the Quality Head/ Construction Manager (as the case may be) appraised of all such discussions/ interactions on daily basis.
- 3.17 Reasonable office space with furniture for proper functioning of the FQEs and Lab Assistants will be provided by BHEL free of any charges.
- 3.18 BHEL shall provide the following facilities to FQEs and Lab Assistants posted at site:
- 3.18.1 Free furnished bachelor accommodation (including free electricity and water supply), on sharing basis as available at sites.
- 3.18.2 Free local transport facility for attending duty in line with that provided to BHEL Staff at site.
- 3.18.3 To and fro travel expenses (as per actual) from place of start in India to Construction site at Sudan shall be reimbursed by BHEL once in total deployment period or after every 12 months whichever is less. It shall be restricted to 2<sup>nd</sup> class AC train fare in India and economy class air fares outside India.
- 3.18.4 All safety equipments like Helmet, Safety Shoe etc. as issued to BHEL site Engineers shall be provided to the FQE and Lab Assistants free of cost at site.

- 3.19 FQEs and Lab Assistants shall follow working hours, number of working days per week and holidays as per norms and holiday list of BHEL Kosti site, where they are deployed.
- 3.20 Each man day shall consist of 8 (eight hours) working hours excluding lunch break. However, at times work may continue round the clock including on Sundays and holidays and services of FQEs and Lab Assistants may be required beyond the normal working hours as decided by BHEL. No compensation, in any form, shall be given by BHEL for such over stays beyond normal working hours or working on Sundays and holidays.
- 3.21 Bidders shall have to provide the Project inspection services on a continuous (daily) basis. In the event of the bidder not providing the required services on any day or for any period, pro-rata recovery shall be made from the contractor's monthly bills for such period. For this purpose, each month shall be considered to be of 30 days.
- 3.22 The bidder shall give an undertaking that the particular "Field Engineer" being approved by BHEL and appointed by the bidder shall continue throughout the period of this contract. Further, during any planned absence, prior approval by the CM is mandatory.
- 3.23 In case the deputed person goes on long leave (> 7 days) or leaves the services without informing BHEL, the contractor will have to make suitable alternative arrangements within 7 days of service interruption at his own cost, including travel expense. In case contractor fails to provide above-mentioned services as desired by BHEL, the latter shall have the right to hire such services from other agencies at the risk and cost of the contractor.
- 3.24 Contractor shall ensure that payment and dues admissible to FQEs and Lab Assistants deployed are made by the last working day of every month, failing which BHEL reserves the right to make such payments and dues to FQEs and Lab Assistants. Such payments shall be back charged/ recovered from bills of the contractor or from security deposit/ bank guarantee. On demand by BHEL, pay roll sheet giving details of all payments made to FQEs and Lab Assistants, duly signed by contractor shall be furnished by the contractor.
- 3.25 BHEL reserves the right to terminate the above contract at any point of time without assigning any reason upon giving 15 days notice to the Contractor.
  - BHEL reserves the right to regulate strength of deployment of contractor's manpower as per requirements and/or to short close the contract. In such eventuality, 15 days notice shall be given by BHEL to the contractor and payment shall be made for the completed months or part there of on prorata basis. No other compensation will be given by BHEL.

- 3.26 In case the performance of the FQEs or Lab Assistants is found to be unsatisfactory, his services shall be discontinued by BHEL and no payment shall be made against deployment of such unacceptable Engineer, from the date FQE or Lab Assistants has been notified as unsatisfactory. Replacement of such persons will have to be arranged by the contractor within 15 days.
- 3.27 In case FQEs or Lab Assistants are found to be indulged in malpractices, their services will be terminated with immediate effect without giving any notice. Also, in such cases, BHEL will have right to decide the payment to be given for services provided by such FQEs or Lab Assistants. Replacement of such persons will have to be arranged by the contractor within 15 days.
- 3.28 In case, the contractor fails to provide FQEs or Lab Assistants in time (due to absence of contractor's person, away from place of deployment); BHEL will have option to arrange the activities by other suitable agency. Additional cost of such agencies together with overhead charges as per BHEL policy will be borne by contractor, which shall be deducted from any sum payable to the contractor.
- 3.29 The contractor shall arrange for medical facilities and insurance for his FQEs and Lab Assistants at their cost.

### 3.30 Insurance

- 3.30.1 It shall be the sole responsibility of Contractor to take insurance policies for the FQEs and Lab Assistants against risks of accidents and injury while at work as required by the rules and make compensation if any as per Workmen's compensation Act.
- 3.30.2 If due to negligence and/ or non-observance of safety and other precautions by FQEs or Lab Assistants, any accident/ injury occur to any other person(s)/ public, the contractor shall pay necessary compensation and other expenses, if so decided by the appropriate authority.
- 3.30.3 The contractor will take necessary precautions and due care to protect any material/ equipment/ hardware etc., while in custody of their FQEs or Lab Assistants, from any damages/ loss till the same is taken over by BHEL/ returned/ handed over to BHEL or customer. BHEL reserves the right to recover loss from contractor, in case the damage/ loss is due to carelessness/ negligence on the part of these personnel. In case of any theft, while in custody of contractor's FQEs or Lab Assistants, matter shall be reported to Police by the contractor immediately and copy of FIR and subsequent police investigation report shall be submitted to BHEL for taking up with insurance.

3.30.4 In case any surrounding property gets damaged due to negligence/ carelessness of contractor's FQEs or Lab Assistants, the contractor shall submit necessary documents for lodging insurance claim as required by BHEL. BHEL, however, reserves the right to recover deductible franchise and also unsettled portion of insurance claim from the contractor.

### 4.0 Tentative Deployment Plan, Kosti, Sudan Site

Sr.	Location	Area of Work	No. of	Approx.	Total
No			FQEs/	Deployment	approx
			Lab	Period	man
			Assistants	(months)	months
			requd.		
1.	Kosti, Sudan	Civil	01	12	12
2.		Mechanical	01	12	12
3.		NDT	01	12	12
		(Radiographic			
		Testing)			
4.		Civil Lab	02	12	24
		Total man mont	hs	1	60

## Notes:

- 1. This deployment plan is indicative and for guidance. It is not exhaustive.
- 2. During the contract period more areas of work can be included. Additional man power as required shall be provided by the agency at the quoted rates.
- 3. The deployment of personnel will vary as per actual requirement.
- 4. At particular site, all personnel might not be required at the same time.
- 5. Deployment of personnel shall be solely at the discretion of BHEL

### 5.0 TIME SCHEDULE

- 5.1 The contractor is required to provide manpower services within 15 days from the date of issue of letter of intent unless BHEL decides to fix any other later date. However, the actual date of deployment will be certified by BHEL Engineer.
- 5.2 The period of contract is for 12 months from the date of letter of intent. However, BHEL has the option to renew the contract on the same rates, terms and conditions upto further period of one more year to be reviewed and renewed at the end of contract period.
- 6.0 Procedure for Contract Finalization & Selection of Parties.

- 1. The tenderer shall quote the rates as per the rate schedule only, in Part II Price Bid (Original). Conditional price bids or price bids with any deviation/ clarification etc. are liable to be rejected. No cutting/ erasing/ over writing shall be done.
- 2. After price bid of technically & commercially eligible parties is opened, commercial negotiations may be held with the lowest bidder (based on total price as per the rate schedule) who will be requested to match individual category rate, apart from the rate reduction, if required/decided by BHEL.

### 7.0 Mobilisation

Mobilisation shall be within 15 days of LOI/ clearance/ intimation from BHEL.

#### 8.0 Mobilisation Advance

No mobilization advance is payable in this contract.

#### 9.0 Price Variation Clause/ Revision of Rates

The accepted rates shall remain firm throughout the execution period including extension period (if any) and no escalation/ revision shall be payable.

### 10.0 Terms of payment

- 10.1 Based on man months deployed and certification by Construction Manager at site, monthly payment will be made to the contractor on pro-rata basis.
- 10.2 It shall be the responsibility of contractor to obtain and submit certificate from BHEL authority regarding deployment of claimed man month.
- 10.3 Period between 25<sup>th</sup> of the last month to 24<sup>th</sup> of the current month shall constitute to be one month. The contractor shall submit the bill alongwith certification (as mentioned above) latest by 30<sup>th</sup> of calendar month to BHEL Site office.
- 10.4 Deductions, if any, shall be made by BHEL from the monthly bill and payment made within 30 days by BHEL subject to correctness and completeness of the bill.
- 10.5 Payment shall be released by BHEL on monthly basis against invoices raised by vendor to BHEL with certified time sheets.
- 10.6 Income Tax or any other tax for the personnel shall be borne by the Contractor.
- **11.0 MODE OF PAYMENT**: Payments shall be made in Indian Rupees by cheque or bank transfer.

### 12.0 Site Visit

The Bidders shall acquaint themselves with the geographical and climatic condition etc. of the project Sites mentioned in the tender before quoting and apprise themselves of all prevailing conditions at the project sites.

### 13.0 Taxes

- 13.1 Income tax & surcharge, if any at prevailing rates as per Sudanese and Indian laws shall be deducted from the bills unless Exemption Certificate from appropriate Income Tax Authority is furnished.
- 13.2 Rate quoted shall be exclusive of Service Tax as per Indian laws. The Service Tax as per Indian laws, as legally leviable & payable by the contractor under the provisions of applicable law/ act, shall be paid by BHEL as per contractor's bill. However, contractor shall have to submit proof of Service Tax as per Indian laws deposited by them immediately after the deposit but not later than the next bill submitted after the due date of deposit. The contractor shall furnish proof of Service Tax registration with Central Excise Division covering the services covered under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by contractor on BHEL for this contract. The contractor shall obtain prior approval of BHEL before billing the service tax amount.
- 13.3 Taxes other than Service Tax as per Indian laws, as applicable, are to be borne by vendor.

### 14.0 LOCAL LAWS IN SUDAN

- 14.1 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.
- 14.2 Contractor shall arrange passports 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.
- 14.3 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.
- 14.4 The Contractor shall comply with all applicable **Sudan Government's safety and sanitary laws, transportation rules, regulations and ordinances**. The Contractor shall also provide insurance cover for his workmen throughout the contract period, under prevailing local Laws.

### 15.0 SECURITY DEPOSIT

- 15.1 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 in the GCC.
- 15.2 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.
- 15.3 Return of Security Deposit The Security Deposit will be released to the contractor, one month after submission of 'Work Completion Certificate' issued by Construction Manager, BHEL, Kosti TPP.

### **16.0 OTHERS**

- 16.1 In case of any contradiction between General Conditions of Contract (GCC) and Special Conditions of Contract (SCC), the latter shall prevail.
- 16.2 The tenderer shall specifically confirm he has inspected the site of work and is fully conversant with the prevailing conditions under which work is to be executed and will not raise claim of any nature due to lack of knowledge of site condition. He will also confirm that local taxation laws at the site have been clearly understood by him.
- 16.3 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 and acceptance of customer. 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.

**Annexure I** 

# CERTIFICATE OF DECLARATION FOR CONFIRMING THE KNOWLEDGE OF SITE CONDITIONS (Please refer Clause 57.0)

namely,about the site conditions and work involved	have visited the project site under the subject and acquired full knowledge and information ved. We further confirm that the above information any claim of any nature due to lack of knowledge
Tenderers Name and Address	
Place:	(Signature of the Tenderers with stamp)
Date:	

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Annexure-II

# NON DISCLOSURE AGREEMENT Memorandum of Understanding

Information Security Policy.	to Information S	Security Ma	nagement S	system as	per
M/s, pro hereby undertake to comply of BHEL PSNR;					
To maintain confidentiality the execution of the Contra		information	which shall b	oe used dur	ing
The documents & informat which shall not be in the bu				vith third pa	arty
( M/s. BHEL, PSNR	)		( M/s		)

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Annexure - III

## **FORMAT OF UNDERTAKING**

(To be submitted in the bidder's letter head)

REF: Dt.
Bharat Heavy Electricals Limited Power Sector – Northren Region, Plot No. 25, Sector - 16A, Distt. Gautam Budh Nagar, NOIDA – 201 301. INDIA
<b>Subject:</b> Rate Contract for Project Inspection Services at 4X125 MW Kosti TPP, Sudan for Field Quality Assurance and Civil Laboratory during erection, pre-commissioning and commissioning stages of various packages/ equipments.
Dear Sirs,
With reference to above, this is to confirm that as per tender conditions, we have visited Kosti site before submission of our offer and noted the job content & site conditions etc.
We also confirm that we have not changed/ modified the tender documents as appeared in the website and in case of observance at any stage, it shall be treated as null and void. We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT and confirm our acceptance to reverse auctioning process and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT. In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.
We confirm to have submitted offer strictly in accordance with tender instructions.
Thanking you,
Yours faithfully,
(Signature, date & seal of authorized representative of the bidder)

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Annexure-IV

### FORMAT FOR NO DEVIATION CERTIFICATE

(To be submitted in the bidder's letter head)

REF: Dt.

Bharat Heavy Electricals Limited Power Sector – Northern Region, Plot No. 25, Sector - 16A, Distt. Gautam Budh Nagar, NOIDA – 201 301.INDIA

**Sub:** No Deviation Certificate for the work of Rate Contract for Project Inspection Services at 4X125 MW Kosti TPP, Sudan for Field Quality Assurance and Civil Laboratory during erection, pre-commissioning and commissioning stages of various packages/ equipments.

### TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/599

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website and in case of observance at any stage; it shall be treated as null and void. We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT and confirm our acceptance to reverse auctioning process and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT. In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer strictly in accordance with tender instructions.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Annexure-V

# FORMAT FOR E-PAYMENT DETAILS: - BHEL-PSNR-NOIDA

(To be given in Company letterhead)

Beneficiary Name :

Bank Name & Branch :

MICR Code (9 Digits) :

IFSC CODE :

(VALID FOR NEFT)

Beneficiary Account No. :

Beneficiary E-mail ID :

(for payment confirmation)

# TENDER NO. BHEL/NR/SCT/KOSTI/PROJECT INSPECTION SERVICES/617 Annexure-VI

# **GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION (RA)**

Against this NIT for the subject work, tender shall be processed through Reverse Auction mode i.e., ON LINE BIDDING ON INTERNET. The General Terms and Conditions of the RA shall be as follows:

- 1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
- 3. BHEL will inform to the vendor in writing, in case of reverse auction along with the details of Service Provider to enable them to contact & get trained.
- 4. **'Business rules'** like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
- 5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
- 6. BHEL will provide the calculation sheet (e.g., EXCEL sheet), which will help to arrive at "Total Cost to BHEL".
- 7. Reverse auction will be conducted on scheduled date & time.
- 8. At the end of Reverse Auction event, the lowest bidder value will be known on the network
- 9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- 10. During Reverse Auction, if no bid is received within the specified time, BHEL at its discretion, may decide to revise opening price/ scrap the reverse auction process/ proceed with conventional mode of tendering.
- 11. Sealed bid Reverse Auction: The opening bid (In the initial auction) of the bidders shall be same as that quoted in their Final Sealed price submitted to BHEL. The bidders shall confirm in writing to BHEL that their opening bid (In both cases) shall be same as that quoted in their final sealed price bids submitted to BHEL against this NIT along with Technical Bid (Part-I).
- 12. BHEL reserves the right to cancel Reverse Auction (RA) without assigning any reasons and resort to considering the sealed bids submitted by vendor for processing and finalizing the tender.
- 13. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- 14. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.
- 15. Bids-given by the bidders during the Reverse Auction process will be taken as an offer to execute the work. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidders shall be bound to execute the work as mentioned above at the final bid price. Should be bidder (Lowest) back out and not execute the contract as per the rates quoted, BHEL shall take action as appropriate.