

# **TENDER SPECIFICATION**

**BHEL:PSSR:SCT: 1201**

**FOR**

Receipt, Unloading at Site Stores / Storage  
Yard, Verification, Stacking and Preservation  
of Materials / Components for 1 X 500 MW set

at

**KAKATIYA THERMAL POWER PROJECT**

**1 X 500 MW**

**Chelpur Village, Ghanur Mandal,  
Warangal District, Andhra Pradesh.**

**PART – I TECHNICAL BID**

**BOOK NO :**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.

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**BHARAT HEAVY ELECTRICALS LIMITED**  
**(A Government of India Undertaking)**  
**Power Sector, Southern Region**  
**690, Anna Salai, Nandanam, Chennai – 35**

Tender Specification No. BHEL:PSSR:SCT: 1201

Messrs

Date :

Dear Sir,

**SUB:** Receipt , Unloading at site stores / storage yard, verification, stacking and preservation of materials / components for 1 x 500 MW set at Kakatiya Thermal Power Project ,Chelpur Village, Ghanur Mandal, Warangal district, Andhra Pradesh .

Please find enclosed one set of non-transferable tender documents containing - **135** - pages of Tender Specification Booklet for the above work.

You are requested to go through the tender documents and offer your most competitive rate and submit the tender documents duly filled in as per procedure indicated in the tender specification along with requisite EMD of Rs.1,50,000/- (Rupees One Lakh fifty thousand only) in the form of Demand Draft drawn in favour of M/s.Bharat Heavy Electrical Limited Chennai - 35. Bids with Deviations from the tender conditions will be rejected.

A SEPARATE LETTER SHALL BE FURNISHED INDICATING THAT THERE ARE NO DEVIATIONS FROM THE TENDER CONDITIONS( As in Page 8.)

The completed quotations shall reach the office of the under signed on or before **13.11.2006** at **15.00** Hrs. The Technical bids will be opened on the same day at **16.00** hrs. We shall separately intimate the date for opening the price bids only to those parties who are technically qualified. You are requested to depute your authorized representative at the time of opening.

**ANY REVISION OF RATES / PRICES WHATSOEVER AFTER THE TIME AND DATE MENTIONED IN TENDER SPECIFICATION FOR SUBMISSION OF COMPLETED QUOTATIONS SHALL NOT BE ENTERTAINED UNLESS CALLED FOR SPECIFICALLY BY BHEL.**

Kindly acknowledge the receipt of the tender documents and confirm your participation.

Kindly note that BHEL reserves the right to reject any or all tenders without assigning any reason.

Thanking you,

Yours faithfully,  
For and on behalf of  
BHARAT HEAVY ELECTRICALS LIMITED

SENIOR DEPUTY GENERAL MANAGER / CONTRACTS

This Tender document is not transferable.

Place : Chennai -35

Encl: One set of Tender documents.



## **Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)

Power Sector – Southern Region

EVR Periyar Building

690 , Anna Salai, Nandanam, Chennai – 600 035.

### **SPECIAL INSTRUCTIONS TO BIDDERS**

The Bidder must submit their bids as requested in a sealed cover prominently super scribing the Tender Specification number, due date and time of submission as mentioned in the **TENDER NOTICE**.

The following information shall be furnished by the Bidder along with their offer (Technical Bid cover)

01. Details of previous experience during the last five years indicating contract value, duration, completion period and present engagement as per G.C.C.
02. Organisation structure of the Company as per GCC.
03. Financial status of the firm enclosing balance sheet and profit and loss account for the past 3 years and certificate from the Company's Banker as per G.C.C
04. Turnover of the Company in last 3 financial years pertaining to this scope of work only.
05. Latest Income Tax clearance certificate.
06. **BIO DATA** of key personnel presently in the Rolls of the company and proposed site organization for carrying out the work including deployment of Engineers and Supervisors.
07. Declaration sheets as per Appendix of Tender Specification.
08. Checklist and Schedule of General particulars as per Appendix in GCC.
09. T & P owned/deployment details as per G.C.C.
10. Technical manpower deployment details as per G.C.C
11. Other relevant details as per GCC and checklist.
12. These terms and conditions will be read and construed along with General Conditions of contract and in case of any conflict or inconsistency between the General conditions and the Terms and conditions of the tender specification, the provisions contained in the Term and conditions (NIT, Rate Schedule, Common conditions, Special Conditions including Appendices) shall prevail.

**13. THE BIDDERS ARE REQUESTED TO FURNISH THE DOCUMENTS LIKE COPIES OF LOI'S, WORK ORDER'S ETC PERTAINING TO THE EXPERIENCE INDICATED IN QUALIFYING REQUIREMENT, AS GIVEN BELOW.**

**14. QUALIFICATION REQUIREMENT**

- a) The bidders should have executed material handling such as Receipt, Unloading at Site Stores / Storage Yard, Verification, stacking of Materials / Components and preservation of materials etc., of 120 MW and above power plant equipments or handling of heavy equipments / components of any industries such as Petro chemicals, Steel plants, Aluminium Plants, Refineries, Fertilizer plant etc., in the last seven years.
- b) The bidders should have a minimum average financial turn over of **Rs.19 Lakhs** per year in the preceding three years ending 31<sup>st</sup> March 2005.

The Bidder must have earned profit in any one of the last three financial years ending 31.03.2005 and should have positive net worth as on 31.03.2005.

Bidder should submit audited balance sheet and profit & loss account of the company for last three years ending 31.03.2005 in support of above requirement.

- c) Notwithstanding the above, BHEL reserves the right to reject any Tender or all the Tenders for reasons whatsoever beyond our control and the decision of BHEL is final.

LD / Penalty shall be leviable as per the applicable clauses of GCC.

**15. TENDERERS HAVE TO FURNISH A DECLARATION SHEET INDICATING THAT THERE IS NO DEVIATION FROM THE TENDER DOCUMENTS (AS IN PAGE 8). TENDERERS MAY FURTHER NOTE THAT THIS DECLARATION IS A PREREQUISITE FOR BHEL TO CONSIDER THEIR BIDS. BIDS SUBMITTED WITHOUT "NO DEVIATION DECLARATION" WILL BE REJECTED BY BHEL.**

**16. SAFETY PLAN**

Bidder may further note that the submission of safety plan is a prerequisite for BHEL to consider their bids.



## **Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)

Power Sector – Southern Region

EVR Periyar Building

690 , Anna Salai, Nandanam, Chennai – 600 035.

### **PROCEDURE FOR SUBMISSION OF SEALED BIDS**

The Tenderers must submit their bids as required in two parts in separate sealed covers prominently super scribed as Part I “Technical Bid” and Part II “Price Bid” and also indicating on each of the covers the tender specification number and due date and time as mentioned in the Tender Notice.

#### **Part I (Technical Bid) Cover I**

Excepting Rate Schedule, all other schedules, data sheets and details called for in the specification shall be enclosed, in part I Technical Bid only.

#### **Part II (Price Bid) Cover II**

All indications of price shall be given in this part II Price Bid.

Tenderers are requested to quote their rates, only in the price bid (part II) provided by BHEL. Quoting of rates in any other form / formats will not be entertained.

These two separate cover I & II (Part I and Part II) shall together be enclosed in a third envelope (Cover III) along with requisite EMD as indicated and this sealed cover shall be super scribed and submitted to Senior Deputy General Manager/Contracts at the above mentioned address before the due date as indicated. The Tenderers will be intimated separately in case any clarifications are required.

#### **NOTE:**

Tenderers are issued with 2 Nos. of Technical Bids, 2 Nos. of Price Bids , out of which one set of each document shall be retained by them for their reference. Balance one set shall be submitted along with their offer as per procedure indicated above.

EMD amount for this Tender is Rs.1,50,000/- (Rupees one Lakh fifty thousand only). This EMD amount shall be submitted in the form of demand draft only drawn in favour of M/s. Bharat Heavy Electricals Limited, Chennai – 35.

**EMD amount in the form of Bank Guarantee / fixed deposit receipt or in any other form will not be accepted.**

**ANY REVISION OF RATES / PRICES WHATSOEVER AFTER THE TIME AND DATE MENTIONED IN TENDER SPECIFICATION FOR SUBMISSION OF COMPLETED QUOTATIONS SHALL NOT BE ENTERTAINED UNLESS CALLED FOR SPECIFICALLY BY BHEL.**

Sr. Deputy General Manager/Contracts.

**Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)

Power Sector – Southern Region

EVR Periyar Building

690 , Anna Salai, Nandanam, Chennai – 600 035.

**TENDER NOTICE**

Sealed Tenders are invited from reputed contractors with sufficient previous experience in the under mentioned similar nature of work:

Tender Specification No. BHEL:PSSR:SCT: 1201

Description	EMD
Receipt, Unloading at Site Stores / Storage Yard, Verification, Stacking and Preservation of Materials / Components for 1 X 500 MW set at Kakatiya Thermal Power Project , Chelpur Village, Ghanur Mandal, Warangal District, Andhra Pradesh.	Rs.1,50,000/- (Rupees one Lakh fifty thousand only)

Cost of Tender Documents : Rs.1105/-  
(Including all Taxes)

Sale Starts on : 31.10.2006

Sale closes on : 10.11.2006

Due date and Time for Submission : 13.11.2006 15.00 Hrs.

Date and time for opening Of Technical Bids : 13.11.2006 16.00 Hrs.



## **QUALIFICATION REQUIREMENT**

- a) The bidders should have executed material handling such as Receipt, Unloading at Site Stores / Storage Yard, Verification, stacking of Materials / Components and preservation of materials etc., of 120 MW and above power plant equipments or handling of heavy equipments / components of any industries such as Petro chemicals, Steel plants, Aluminum Plants, Refineries, Fertilizer plant etc., in the last seven years.
- b) The bidders should have a minimum average financial turn over of **Rs.19 Lakhs** per year in the preceding three years ending 31<sup>st</sup> March 2005.

The Bidder must have earned profit in any one of the last three financial years ending 31.03.2005 and should have positive net worth as on 31.03.2005.

The bidders should submit audited balance sheet and profit & loss account of the company for last three years ending 31.03.2005 in support of above requirement.

- c) Notwithstanding the above, BHEL reserves the right to reject any Tender or all the Tenders for reasons whatsoever beyond our control and the decision of BHEL is final.

LD / Penalty shall be leviable as per the applicable clauses of GCC.

Interested parties can get the Tender documents from the office of the Senior Deputy General Manager / Contracts on all working days by remitting the cost of tender documents either by Cash or A/c Payee Demand Draft drawn in favour of M/s. Bharat Heavy Electricals Limited, Chennai – 600 035. Money order, Cheques and Postal Orders will not be accepted.

The Bharat Heavy Electricals Limited takes no responsibility for any delay, loss or non-receipt of tender documents sent by post and also reserves the right to reject any or all the tender without assigning any reason therefor. **TENDER NOT ACCOMPANIED BY THE PRESCRIBED EARNEST MONEY DEPOSIT ARE LIABLE TO BE SUMMARILY REJECTED.**

SENIOR DEPUTY GENERAL MANAGER/CONTRACTS

*TENDER SPECIFICATION : BHEL:PSSR:SCT:1201*

*CERTIFICATE FOR NO DEVIATION*

*I, \_\_\_\_\_ of*

*M/s \_\_\_\_\_*

*hereby certify that there is no deviation from the Tender conditions either technical or commercial and I am agreeing to all the terms and conditions mentioned in the Tender Specification.*

*SIGNATURE OF THE TENDERER*

## OFFER OF CONTRACTOR

Senior Deputy General Manager/Contracts  
Bharat Heavy Electricals Limited,  
Power Sector : Southern Region  
690, Anna Salai,  
Nandanam,  
Chennai – 600 035.

Sir,

I/We hereby offer to carry out the work detailed in Tender Specification No.BHEL:PSSR:SCT:1201 issued by Bharat Heavy Electricals Limited, Power Sector : Southern Region, in accordance with the terms and conditions thereof.

I/We have carefully perused the following documents connected with the above work and agree to abide by the same.

1. Instructions to Tenderer
2. General Conditions of Contract
3. Special conditions of Contract
4. Other Section, Appendices and Schedules

I/We have deposited/forwarded herewith the Earnest Money Deposit/a sum of Rs.1,50,000/- (Rupees One Lakh and fifty thousand only) vide DD.No.                      Dt.                      Which shall be refunded should our offer not be accepted. Should our offer be accepted, I/We further agree to deposit such additional sum which along with the sum of Rs.1, 50,000/- (Rupees One Lakh and fifty thousand only) mentioned above, to make up the Security Deposit for the work as provided for in the Tender Specification within the stipulated time as may be indicated by BHEL, Power Sector: Southern Region, Chennai – 600 035.

I/We further agree to execute all the works referred to in the said documents upon the terms and conditions obtained or referred to therein and as detailed in the appendices annexed thereto.

DATE:

CONTRACTOR:

PLACE:

ADDRESS:

Witness with their address

Signature

Name

Address

## KAKATIYA THERMAL POWER PROJECT

### PROJECT INFORMATION

1	Name of the Project	Kakatiya Thermal Power Project
2	Station Capacity	1 x 500 MW ( Coal based )
3	Owner	Andhra Pradesh Power Generation Corporation Limited ( <b>APGENCO</b> )
4	Consultant	M/s DESEIN
5	Site Location	Chelpur Village, Ghanur Mandal, Warangal District ( ½ Km from State High way ) and 10 Km from Bhoopalapally
6	Latitude	18 23" N
7	Longitude	79 51"E
8	MSL	180 M
9	Nearest Highway	SH-7 ( Connecting Parkal with Mahadevpur )
10	Nearest Town / City	Warangal 65 Kms South East
11	Nearest Railway Station	1. Uppal Railway station on SCR & 45 Kms from site 2. Warangal Railway station of SCR 65 Kms from Site
12	Nearest Air port	240 Kms ( Hyderabad)
13	<b>Metrological Data</b>	
	A) Temperature	
	i. Average Max Temperature	34.5 Deg C
	ii. Average Min Temperature	22.3 Deg C
	iii. Highest Max Temperature	45.7 Deg C
	iv. Lowest Minimum Temperature	9.0 Deg C
	v. Temperature to be considered for design of Electrical Equipments / Devices	50 Deg C
	B) Relative Humidity average	55%
	C) Rainfall ( Average Annual )	1005 mm
	D) Wind Data / Basic Speed	47 M / Sec
	E) Seismic Data	Zone II

14	Languages spoken in the region	English, Telugu
15	Language for communication with Sub-Contractor / Vendors	English
16	Tropicalisation	All Equipments supplied against this specification shall be given tropical and fungicidal treatment in view of climatic conditions prevailing at site
17	Supply Voltage	240 V AC for Lighting

## **SECTION III**

### **COMMON CONDITIONS OF THE CONTRACT**

#### **1.0 SCOPE OF WORK**

Providing manpower, tools and plants, materials, handling equipments and consumables, supervision and execution of material handling work which includes unloading of components at stores / storage yard verifying and stacking in the project area.

Transportation of certain materials from Godown of Transport carriers, located within a radius of 70 Km from the project site unloading, verification of components which includes unpacking of cases / crates, repacking after verification, preservation, stacking of all the components at stores / storage space, shifting of materials from one location to another location within storage area and wherever required keeping the materials / components by raising height.

From the area/delivery points of all materials/components pertaining to generating units, auxiliaries, piping, miscellaneous plants and equipments, panels, cables and other electrical equipments, oil drums, tools, plants or any other items and equipments meant for erection, commissioning, and office equipment / furniture and miscellaneous items, contractor to use his own cranes, tractor/trailers, trucks, lorries, slings, jacks, lifting tackles and any other equipments for this job. Handling of equipments for verification of components including opening of cases / crates / boxes and repacking / stacking after verification shall also be the responsibility of the contractor. Compliance with statutory obligations as well as any other requirements/provisions with respect to contractor's manpower, equipment including insurance, medical facilities, minimum wages, safety requirements, accommodations etc., to be the responsibility of the contractor.

**THE CONTRACTOR SHALL STRICTLY ABIDE BY THE STATE AND CENTRAL LAWS, STATUTORY RULES, REGULATIONS ETC. AS INDICATED IN GCC SECTIONS. IN ADDITION THE CONTRACTOR SHALL HAVE TO COMPLY WITH PROFESSIONAL TAX / SERVICE TAX AND PF/ LABOUR LICENCE REGULATIONS FOR ALL HIS EMPLOYEES / WORKMAN AS PER THE LOCAL AUTHORITIES/GOVERNING BODIES INSTRUCTIONS.**

## **2. FACILITIES TO BE PROVIDED BY BHEL:**

Open space for contractor's office and stores will be made available by BHEL free of cost.

Electricity will be provided at one point on free of charge for construction purpose only. Further distribution shall be arranged by the contractor at his cost.

Water will be arranged by the contractor at his cost for execution of contractual obligations as well as drinking / general use.

## **3. FACILITIES TO BE PROVIDED BY THE CONTRACTOR**

- i. The contractor shall be responsible to provide all necessary facilities like residential accommodation, transport, distribution of water and power, medical insurance etc. as required under the various labour laws and other statutory rules and regulations as applicable at site for their staff, labour.
- ii. Contractor has to make his own arrangements for his labour tenements.
- iii. The contractor will make his own arrangement for his communication needs at his site office.
- iv. Contractor shall deploy labour at site strictly in accordance with the guidelines approved by our Customer.
- v. For movement of cranes, tractor, trailers, if sleeper/plates are required, the same shall be arranged by contractor at his own cost.
- vi. The contractor will provide two computers and its accessories with operator for data entering for store records.
- vii. Apart from manpower required to execute the contract successfully the following minimum manpower shall be arranged with in the quoted rate of the contract.

Well trained/qualified Store keepers (min 4 Nos) with suitable assistance and min 2 Nos of Engineers/Supervisors for organizing and executing material handling functions like receipt, unloading in specified area, verification & stacking, preservation as per the guide lines of BHEL, issues to BHEL sub- contractors on BHEL authorisation, data entering and maintaining receipt & store records both in ledgers and in computers, reporting of shortage/damages, preparing insurance claims etc.,



#### **4. SOMS (Site Operations Management System)**

SOMS is an Online WEB based system covering all aspects of site operations from estimation to contract closing. The modules include:

1. Documentation management System
2. Materials Management System
3. Tools & Plants (T&P), IMTE System
4. Erection / Material Handling and billing System.
5. Performance Monitoring of Contractors, Welders and total no. Of joints
6. Site Deviation / Failure Monitoring System, SARs, CARs.
7. Management Information Report System (MIRS)
8. Customer billing
9. Sub Contractor Billing
10. Integration of Contractor bill payments, Recoveries from Contractor, T&P Hire Charges with existing Financial System already running in BHEL.
11. Local purchase material accounting system.
12. Insurance claim management

#### **OBJECTIVE**

- WEB based system for all site related activities to effectively carry out, monitor and analyse activities on line for different sites.
- Lowering inventory cost, timely completion of planned activities and transfer of information without delay.
- Allow monitoring the project effectively.
- Interface with Online Finance System and aid activity based costing.
- Tool for effective Project Monitoring at HQ.
- Cover all site activities presently being done manually

- Create a database for future use
- Eliminate paper based reports
- Provide access to all users on need to know basis. This covers BHEL employees, Customers, Vendors etc.

The broad overview and objectives of SOMS is indicated above, however the tenderer is responsible and execute functions relevant to his scope of material handling contract.

## **ENVIRONMENT**

The system works with following environment:

SERVER:

Operating system – Linux 7.x  
Oracle database - 9.i  
Oracle application server – 9.ias

## **CONTRACTOR SCOPE OF SITE OPERATION MANAGEMENT SYSTEM**

The requirement of the site operation Management System which includes materials receipt, issue etc., are to be carried out on-line and running bills are to be submitted through the system. Hence the contractor should arrange their own PC system as per the following specification with qualified operators at their cost. It is the responsibility of the contractor for the operation and the maintenance of the system, and if any fault / failure of the system should be rectified immediately without delay, at contractors cost. Contractor has to note the above aspects and quote accordingly.

The system will be connected to BHEL server.

### **Specification for PC system**

(To be Arranged by the Contractor at their Cost)

<b>Sl.No</b>	<b>Features</b>	<b>Minimum Requirements</b>
1	Processor	Intel Pentium 4, 2 GHz or above
2	Chipset	Intel 845 or higher Intel Chipset
3	RAM	256 MB DDR SDRAM
4	HDD	40 GB
5	FDD	1.44 MB
6	Optical Drive	48 x of above CDD
7	Monitor	15" VGA Colour
8	Keyboard	Minimum 104 keys Windows keyboard
9	Mouse	2 Button Scroll mouse
10	Ethernet	Integrated 10/100 Mbps NIC for LAN
11	Ports	Minimum 1 Parallel, 1 Serial, 2 USB
12	Software	Windows 2000 or XP Professional
13	Accessories	Mouse pad & Dustcovers
14	UPS	1 KVA UPS with 1 hr. backup
15	Printer	A4 size Laser Printer – 20 ppm or above (with all consumables, cartridges & stationery

## **5.0 TOOLS, TACKLES AND CONSUMABLES**

The contractor shall arrange all Tools and Plants including Cranes / Tractors / Trailors / Trucks etc. at his own cost and either owned by him or on hire. Though it is the responsibility of the contractor to arrange cranes and trailors of suitable capacity as per the weight and size of components, the following are the major T & P recommended (described in Clause 5.1) by BHEL for executing this job.

Tenderers have to furnish a list of Tools and Plants including cranes, Tractor / Trailors etc. which they propose to deploy for this work.

The contractor at his cost shall arrange crane operator, diesel, petrol and other consumables required for the tools and plants, equipments etc. Preventive and routine maintenance of tools and plants are also to be arranged by the contractor at his cost without any delay.

For unloading of heavier components /equipments like HP steam turbine, LP turbine & Boiler drum, etc., the contractor has to make his own arrangements at his cost. BHEL will not provide any crane / T & P's for unloading the above components.

### **IMPORTANT NOTE**

#### **5.1 THE FOLLOWING MINIMUM EQUIPMENTS HAS TO BE ARRANGED BY THE CONTRACTOR AT THEIR COST.**

<b>75 T CRANE</b>	<b>1 NO</b>
<b>18 T MOBILE CRANE</b>	<b>1 NO</b>
<b>8 T HYDRO MOBILE CRANE</b>	<b>2 NO</b>
<b>30 / 40 T TRACTOR TRAILOR</b>	<b>1 NO</b>
<b>10 / 20 T TRACTOR TRAILOR</b>	<b>1 NO</b>

**COPY OF OWNERSHIP OF THE ABOVE T & Ps OR THE DOCUMENTS WITH RESPECT TO THE TIE UP IN THE FORM OF A REGISTERED AGREEMENT WITH A RESOURCEFUL PARTY ARE TO BE ENCLOSED ALONG WITH OFFER.**

## **6.0 RESPONSIBILITIES OF THE CONTRACTOR**

1. Contractor shall be responsible for examining all the shipment and notify BHEL Engineer immediately if any damage, shortage, discrepancy etc., for the purpose of engineer's information. The contractor shall submit a report every week detailing in this regard.
2. For timely completion of the job, the contractor may have to work in one or more shifts. He will not be eligible for any extra charges on this account.

## **7.0 WORK SAFETY REGULATIONS**

1. The contractor shall ensure the safety of all the workmen, materials, and equipment either belonging to him or to others working at site.
2. The contractor will notify the Engineer of his intention to bring on to site any equipment or any container, with liquid or gaseous Fuel or other substances which may create hazard. The Engineer shall have the right to prescribe the conditions under which the equipments or container may be handled and used during the performance of the work and the contractor shall strictly adhere to such instructions. The Engineer shall have the right to inspect any construction plant and to forbid its use, if in his opinion, it is unsafe. No claim due to such prohibition shall be entertained by BHEL.
3. Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosives, the contractor shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulations laid down in petroleum act 1934. Explosive Act 1948 and Petroleum and Carbide of Calcium Manual published by the Chief Inspector of Explosive of India. All such storage shall have prior approvals of the Engineer. In case any approvals are necessary from the Chief Inspector of Explosives or any statutory authorities, the contractor shall be responsible for obtaining the same.

## **8.0 INSURANCE**

The contractor shall take suitable, insurance policies to cover his workers under Workmen's Compensation Act to cover risks of his staff/Engineers through group personnel accident insurance policy, to cover risks of his tools tackles and equipments and a suitable insurance policy to cover damage to property or personnel or third parties.

## **9.0 OTHER IMPORTANT CONDITIONS**

### **9.1 SAFETY**

- a. T & P used by contractor should be of tested quality bearing ISI marks. Necessary test certificates to be produced by the contractor for all the T & P received by him at site for acceptance by BHEL Engineer. BHEL will reject any T & P without IS test certificate and the same cannot be utilized on job.
- b. Only trained and experienced personnel to be used on the job. Signaling for rigging operations must be given by workers who are possessing required skill and experience in handling materials.

9.2 Contractor shall strictly follow all safety conditions as per clause 2.15 and its sub clauses of G.C.C Booklet Non-conformity of safety rules and safety appliances will be viewed seriously and the BHEL has right to impose fine on the contractor as under:

<b>Sl.No.</b>	<b>Safety</b>	<b>Fine (Rs.)</b>
01	Not wearing safety helmet	50/-
02	Not wearing safety belt	100/-
03	Grinding without goggles	50/-
04	Not using 24V supply for internal work	500/-
05	Electrical plugs not used for hand machines	100/-
06	Not slinging properly	200/-

07	Using damaged sling	200/-
08	Lifting cylinders without cage	500/-
09	Not using proper welding cable with lot of joints and not insulated properly	200/-
10	Not removing small scrap from platforms	200/-
11	Gas cutting without taking proper precaution or not using sheet below gas cutting	200/-
12	Not maintaining elec. Winches which are being operated dangerously	500/-
13	Improper earthing of electrical T & Ps	500/-

- 9.3 Contractor shall necessarily fill up the safety plan format available in General Conditions of Contract booklet enclosed with this tender and submit along with their offer.

**10.0 CONTRACTOR SHALL DEPLOY A SAFETY OFFICER EXCLUSIVELY TO HANDLE SAFETY REQUIREMENT.**

- 10.1 Contractor to provide his own, Tractors / Trailers with operators. Required fuel for these equipments and maintenance of the same will be contractor's responsibility.
- a. Any breakdown of crane, trucks, trailers and any other handling / lifting equipments, T & P etc. used by the contractor must be set right within twenty four hours. Contractor cannot attribute such breakdown for delay in unloading and transportation of materials, stacking etc.
  - b. If the contractor fails to set right his handling equipments and T & P in time, as stated above, BHEL shall have the right to hire these equipments from other sources and give it to the contractor if found necessary. All the expenditure incurred in this regard will be recovered from the contractor's running bill. However, it is not obligatory on BHEL and cannot be quoted by the contractor for any demurrage or any other charges incurred by the contractor on account of the same.
- 10.2 The contractor will arrange for gate passes and any other permits required for carrying out his work from the respective agencies at his own cost. He will also comply with regulations of the customer within the project area, any of the State Government and other Government agencies.

- 10.3 In case the contractor wishes to take up any other work of similar nature in the same project area, he should obtain prior permission of BHEL before taking up such work. BHEL reserves the right to accord/reject permission depending on exigencies of work.
- 10.4 Contractor has to make payment of freight charges against the LWB/PWB/RR upto a limit of Rs. 500/- per consignments and claim reimbursement of the same from BHEL by producing necessary supporting documents. For freight charges beyond Rs. 500/- (Rupees five hundred only). BHEL will arrange to pay the freight charges by cheque / DD to the carriers / Railways.

## **11.0 PROGRESS OF WORK**

- 11.1 During the course of material Handling if the progress is found unsatisfactory or the materials are not unloaded in time without any delay or in the opinion of BHEL, if it is found that the skilled workmen like Riggers, operators, technicians and Helpers employed are not sufficient, BHEL will induct required additional workmen to improve the progress and recover them from contractor's bill, all charges incurred on this account including all expenses together with BHEL overheads.
- 11.2 The progress reports shall indicate the progress achieved against planned with reasons indicating delays if any and shall also furnish in details the reasons for the same and shall give remedial action which the contractor intends to take to make good the slippage or lost time so that further works can proceed as per the original programme and the slippage do not accumulate and affect the overall programme.
- 11.3 The contractor shall submit daily, weekly and monthly progress reports manpower reports material reports consumables report and other reports considered necessary by the Engineer.
- 11.4 The manpower reports shall clearly indicate the manpower deployed category wise daily specifying also the activities in which they are engaged. The periodicity of the reports will be decided by BHEL Engineer at site.
- 11.5 The contractor shall arrange for weekly progress review meeting with the "Engineers" at site during which actual progress during the week vis-à-vis scheduled programme shall be discussed for action to be taken for achieving targets. The programme for subsequent week shall also be presented by contractor for discussion. The contractor shall constantly update/revise his work programme to meet the overall requirements and suit the material availability.



- 11.6 The contractor shall submit detailed monthly plan after discussion with BHEL Engineer and the same has to be forwarded by the first week of the month (Working month or calendar month).

## **12.0 SPECIFIC REQUIREMENTS FOR ISO 9001 - 2000**

### **IMPORTANT NOTE**

Contractors shall ensure that all their Staff/Employees are exposed to periodical training programme conducted by qualified agencies/personnel on ISO 9001-2000 Standards.

Contractors shall ensure that the Quality is maintained in all the works connected with this contract at all stages of the requirement of BHEL.

Contractor shall ensure that all Inspection, Measuring and Testing equipment that are used, whether owned by the contractors or used on loan, are calibrated by the authorized agencies and the valid calibration certificate will be available with them for verification by

BHEL. A list of such instruments possessed by contractor at site with its calibration status is to be submitted to BHEL Engineer for control.

Contractors shall arrange for the inspection of the works at various stages as required by BHEL. Immediate corrective action shall be taken by the contractors for the non-conformances if any, observed and pointed out by BHEL.

## **HSE SPECIFIC REQUIREMENT**

### **13.0 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM**

#### **SUB CONTRACTOR TO ENSURE COMPLIANCE OF THE FOLLOWING HEALTH RELATED POINTS**

01. Sub-contractor to identify nearest hospital for Health check up of his staff and workers and intimate BHEL site office & PSSR HQ.
02. To arrange for occupational health check up / screening of contractor's staff and workers engaged in sub contracting activities. In this, category of workmen such as welders, gas cutters, grinders, radiographers, crane operators are to be given exclusive attention in respect of health screening.
03. Sub-contractor to arrange an ambulance vehicle or emergency vehicle on a continuous basis to meet any emergency situation arising at site work in which his staff and workers are engaged.
04. To provide appropriate facilities for prompt first aid treatment of injuries and illness at work. One first Aider for each sub contractor to be provided. First Aider should undergo training on first aid.
05. To provide filtered drinking water at selected place in a clean container.

#### **SUB CONTRACTOR TO ENSURE COMPLIANCE OF THE FOLLOWING SAFETY RELATED POINTS**

01. Personnel protective equipment (PPES): Required number of following PPES (Confirming to Relevant is Standards ) to be made available to workmen at site and ensured that they are used .
  - ❑ Helmet
  - ❑ Safety goggles
  - ❑ Welding face shields
  - ❑ Safety belts for working at heights
  - ❑ Safety shoes
  - ❑ Ear plugs
  - ❑ Rubber gloves and mats for low tension (I.T) electrical works
  - ❑ Gum boots & aprons
  - ❑ Other items as required by BHEL site

02. Sub contractor to liaise with nearest fire station and inform contact telephone number and contact person to meet any emergency.
03. To provide appropriate fire fighting equipment at designated work place and to provide fire fighting training to selected persons in his group of workmen to meet emergencies.
04. To provide adequate number of 24 V power supply points to work in a constrained and enclosed space.
- 05 . All power tapping points / switch boards /power & control cabling should fulfill required electrical safety aspects as per relevant is standard.
- 06 ELCH's (Earth leak circuit breakers) at all electrical distribution points to be provided.
07. Red and white caution tape of proper width ( 1.5 to 2 inch ) to be used for cordoning unsafe area such as open trench, excavated area, etc.
08. To provide sub-contractors company logo or clothing to all staff and workers for identification including identity cards with photographs approved by BHEL.
09. High pressure and structural welders to be identified with colour clothing and to display copy of welders certificate with photographs of welder at the work place. They also should be in possession of valid welding procedure.
10. To display safe handling procedure for all chemicals such as lube oil, grease, sealing compound, kerosene, diesel etc. at stores & respective work place.
11. Contractor should authorize a person at site to stop work if there is a unsafe work noticed as per his knowledge.
12. Fitness for use of erected scaffolding to be certified by the contractors approved scaffolder and the certificate should be displayed on the scaffolding itself. If the scaffolding is unsafe , the same should not be used. The certificate is to be updated daily. The scaffolding to be made as per the relevant is standard.

13. For making platform on the scaffolding , proper thickness and size of the plank of required quality wood to be used. The safe working load of the platform to be displayed on the scaffolding itself. Proper use of platform to be explained to the user.
14. All plant equipment should have inspection report before put in to use.
15. All T&Ps should be of reputed brand and having quality certificates.
16. All IMTE's should have valid calibration certificate from recommended institution / testing lab and these should be in place.
17. All lifting tackle and plant equipment should have safe working load certificate.
18. The right worker should be deployed for right job and the resume of site in charge, supervisors, and key workers to be submitted before commencement of work..
19. Sub-contractor should submit inspection / testing matrix of all T&Ps and to be approved by BHEL.
20. Sub-contractor to display safety slogan, safety board, caution boards wherever required in consultation with BHEL.
21. Sub-contractor to provide gas detectors of reputed make at desired locations.
22. Sub-contractor to conduct emergency mock drills, one drill per 6 months and submit report to BHEL.
23. Safe handling and storing of all equipment with adequate space to be ensured.
24. Sub contractor to deploy safety supervisor till the completion of the project.
25. Sub contractor to comply the safety reporting procedure of BHEL as practiced at present and also additional requirements that may arise out of future improvements in the safety management system. This includes computation of safety indices such as frequency rate, severity rate & incident rate.

26. Sub contractor to identify probable emergency situations such as electric shocks to workmen, caving in of shored earth, fall from height, collapse of scaffolding fire etc., and should have clear action plan to overcome them. Sub contractor to take required guidance from BHEL in this regard.
27. Sub contractor to identify hazardous activities which he may carryout and should train his workmen in those activities with the relevant operation control procedures. Sub contractor to take required guidance from BHEL in this regard.
28. Safe work permit system to be followed while working in confined space / near electric systems.

**SUB CONTRACTOR TO ENSURE COMPLIANCE OF THE FOLLOWING ENVIRONMENT RELATED POINTS**

1. HOUSE KEEPING : Sub contractor to carry out daily house keeping of work areas / stores through a check list prepared in consultation with BHEL.
2. Sub contractor shall adopt pollution prevention / reduction /control approach in all his site activities. this shall include:
  - a. Transporting of oil / chemicals from stores to site safely without causing spillage. In case of any spillage, the area shall be cleaned and the remnant spilled oil disposed off to a safe place, identified for such disposal.
  - b. To use required containers / cans / safety gadgets /appliances for transporting and for usage of oil / chemicals at site.
3. Sub contractor shall arrange for segregation / collection of scraps and dispose off to the identified place meant for scrap collection.
4. Sub contractor to adopt good erection practices / procedures with the objective of reduction of waste generation / rework.

## **OTHER HSE REQUIREMENTS TO BE COMPLIED BY SUB CONTRACTOR**

1. Sub contractor to clearly understand and accept the HSE policy of PSSR with a commitment to comply the requirements of the policy.
2. Sub contractors to arrange for daily meeting of their supervisors and work force before they disperse for their daily planned activities where in the relevant health , safety and environment aspects of the job and use of PPES are explained
3. Sub contractor to conduct monthly HSE meeting (internal) and submit the report to BHEL.
4. HSE slogans to be displayed in a proper board – hoarding at designated places in consultation with BHEL.
5. Sub contractor to submit a structured programme for training & occupational Health Screening of their work force at site after the Award of LOI.

## **SECTION VI**

### **I SPECIAL CONDITIONS OF THE CONTRACT FOR UNLOADING AND TRANSPORTATION WORKS**

1. Responsibility of the contractor and scope of work. It would be the responsibility of the contractor to keep in contact with the BHEL authorities at site to find out the arrival of the consignments. The lorry way bill/truck way bill for the consignments would be handed over to the contractor immediately on receipt.
2. The contractor is required to find out from concerned authorities, regarding arrival of consignment prior to the receipt of consignment note, if any, and take delivery of the same on "Indemnity Bond". Indemnity Bonds would be executed by BHEL, when intimation regarding arrival of consignment is furnished by the contractor.
3. Payment of all demurrages / wharfages that result due to contractor's fault would be the responsibility of the contractor and to his account. If BHEL have to make payment of demurrage / wharfage together with the freight the amounts so paid as demurrages / wharfages for the reasons stated above shall be paid by the contractor forthwith or would be recovered from the bills of the contractor, with BHEL overheads as applicable.
4. It would be the responsibility of the contractor to examine the packages, consignments etc., on arrival and bring to the notice of Transport authorities and BHEL authorities regarding loss/damages, if any observed in the consignments proposed to be taken delivery of, before, taking delivery, particularly of consignment in "smalls" the weight of the packages and any discrepancies shall be reported immediately to BHEL/Transport authorities. In case it become necessary to take open delivery from the authorities, contractor should make all arrangements for taking open deliveries. All expenses connected there with shall be to the account of the contractor. Any loss that occurs to BHEL on account will be recovered from his progress bills.
5. Any discrepancy/shortage/damage found in the consignment after taking delivery from the carriers after giving clear receipt would be the responsibility of the contractor and the amount liable to be lost by BHEL on such amount is recoverable from the contractor.
6. In case of apparent damages/shortage to consignment / packings noticed by the contractor such cases shall be brought to the notice of BHEL and cleared only with their knowledge / approval.

7. Consignment coming on Sundays and Holidays are also required to be handled by the contractor. Since the offices and godowns will probably remain closed on these days, it will be the responsibility of the contractor to contact the Site Engineer / his authorised representative at BHEL at their residence and obtain instructions.
8. BHEL reserves the right to recover from the contractor any loss which arises out of undue delay/discrepancy shortage/damage or any other causes during transit or during unloading or during stacking, or any time in the custody of the contractor.
9. Unloading from Transport equipments, transportation, unloading at storage area/work site of heavy sophisticated equipment like heavy motors, Mills, Drums, heavy bearings, fans, Transformers, Electricals Panels, Turbine Generator, etc. shall be done in the presence of and as per the direction of BHEL representative including stacking and restacking if necessary.
10. Since the consignment are expected to arrive during any time of the day or night contractor shall have his workmen round-the-clock at site as well as other places as required to unload the materials. Contractor's quoted rate shall include all such contingencies.
11. Unloading of materials / components at the storage yard, using contractor's own Lorries, Trailers and other equipment with valid road permits for their operation, unloading and stacking handling at storage yard for verification shall be the responsibility of the contractor under this contract.
12. All the materials shall be stored at minimum of 6" height above the ground level by the use of concrete or wooden sleepers or wooden logs. No material shall be allowed to remain on ground at any time. Materials shall not be stacked in low lying areas, where it is likely to get flooded during rain.

**For stacking the materials above the ground level, like Wooden / Concrete Sleepers, Wooden Logs, And Concrete Blocks , Wooden Sleepers With Min 6" Height and 8" width and minimum length of 1.5 metre to 2 metre to be used. Alternatively , Concrete Sleepers also of 6" x 8" section and formed using 12 mm reinforcement rods and M25 grade concrete can also be used of suitable lengths for easy handling. The sleepers should be cured properly after casting to ensure sufficient strength to bear the weight of materials stacked. Wooden logs /reepers also to be used as per requirement. Tarpaulin as per requirement will be given by BHEL free of cost.**



13. Stacking of the materials shall be done as per the instructions and to the satisfaction of BHEL Engineers. The materials shall be stacked that it should facilitate easy handling during erection. In case any negligence or improper stacking is noticed, it shall be the responsibility of the contractor to re-stack at his cost. Failure to do so may force BHEL to get the job done through other agencies and recover the same from the contractor.
14. Under the scope of this contract, it shall be the responsibility of the contractor to provide facilities to open the package in the presence of BHEL Engineers verifying the same, repack wherever and whenever necessary properly stack them as may be directed by BHEL so as to facilitate proper handling and verification.
15. The necessary lifting tackles, Cranes, Welding machines ,tools, wire rope slings of suitable capacities and other equipment including fork lift etc. incidental to carry out this work shall have to be arranged by the contractor himself. All such lifting tackles and equipments shall be approved by BHEL before they are actually used for work.
16. The contractor shall execute the work in the most substantial and workmen like manner. The stores shall be handled with care and diligence. Any loss to BHEL due to contractor's lapse shall have to be made good by the contractor.
17. If the contractor or his workmen or employees shall break, deface, injure or destroy any part of a building, road, kerbs, enclosures, water pipes, fence, cables, drains, electric or telephone posts or wires, trees or any other property for to any part of erected boilers, T.G. Sets components etc., the contractor shall make good the same at his own expense or in default the site Engineer may cause the same to be made good by other workmen or by other means and deduct the expenses (of which the site Engineer's decision is final) from any sums that may be then or at any time thereafter become due to the contractor or from his security Deposit or any other money due.
18. Transportation of certain materials from Godown of transporter Carriers located at
  - 1) Warangal - 70 Kms
  - 2) Uppal Railway station – 45 Kms
  - 3) Bhoopalapally – 10 Kms

The contractor will quote a separate tonnage rate for transporting materials from the above place as mentioned in rate schedule.

## **II. LABOUR AND SUPERVISORY STAFF**

1. The contractor shall engage specially skilled labour eg. Serang, riggers, khalasis, etc., for works under this contract.
2. The supervisory staff employed by the contractor shall ensure out-turn work and discipline on the part of the labour put on the job by the contractor and in general see that the works are carried out in a safe and proper manner and in co-ordination with labour and staff employed directly by BHEL or other contractor of BHEL, or by BHEL's client.
3. It will be the responsibility of the contractor to ensure lifting of the equipment taking due precaution to avoid any accidents and damage to other equipment and personnel. The contractor shall be responsible to make good the damages to personnel, equipment or other materials arising out of accidents, during executing of the work by him.

## **III. TERMS OF PAYMENT**

- A.** 1. The contractor shall submit his bills once in a month duly furnishing the following information.

The gross weight as per RR/LWB / PWB

- a. RR/PWB/LWB Number
- b. Wagon/Vehicle/truck number and number of bundles/boxes/piece in each vehicle / truck / Wagon
- c. Shortage / damage reports in BHEL's standard material / management form.
- d. Rate / per tonne
- e. Amount claimed.
- f. Recoveries such as hire charges etc.
- g. RR Incase materials are received in railway wagons

70% of the rate shall be paid as soon as the material are unloaded, transported to storage yard / stores and verified as per RR / LWB / PWB. Subject to furnishing following information along with the bill.

- a. Shortage report / open delivery taken with respect to RR/LWB/BL if any and acceptance there of by Railway authorities transporters etc.
  - b. Proof of the claim lodged with Railways, Road transporters etc., in respect of above shortage / open delivery.
  - c. Material Management form duly filled and certified by BHEL Engineer.
2. 25% of the rate shall be paid as soon as the materials are fully stacked at storage yard/stores and verified as per wagon loading advice slip/packing slip. Payment will be released on submission of the information as per materials management forms by the contractor immediately after verification of materials and certification by BHEL Engineers. The requisite proforma would be supplied by the Site Engineer.
  3. Balance 5% will be released after completion of contract in full and certification by BHEL Engineer, and on submission and passing of final bill.

#### **B. TERMS OF PAYMENTS FOR PRESERVATION PAINTNG**

95% of the value of work on pro-rata basis after the work is carried out in each month.

5% of the value of work on satisfactory completion of entire work as certified by the BHEL Engineer and on submission and passing of final bill.

#### **IV NOTE TO RATE SCHEDULE**

1. The tenderer shall quote the rate per TON as per the "rate schedule" annexed in this Tender specification; conditional offers are liable to be rejected. The scope of work and responsibility of the contractor as mentioned under all the clause etc. of the tender specifications and G.C.C. shall be covered within quoted rates.
2. The total weight mentioned in the rate schedule is Approximate and is liable to be altered at the discretion of BHEL. No variation in the quoted / accepted rates per TON shall be allowed due to increase / decrease in total tonnage mentioned.

4. The work executed will be priced at the unit rate quoted by the contractor and accepted by BHEL. For the purpose of payment, the gross weight indicated in RR/LWB/PWB will be taken into account for calculating the tonnage handled. However in case of full truck / Lorry load, Gross weight indicated in shipping / dispatch documents will be taken into account for this purpose. Where gross weight is not available in these documents, gross weight as assessed by BHEL Engineers will be taken into account and which is final for the purpose of payment. For Handling of Insulation materials the payment will be made only for the actual Tonnage handled with respect to the shipping / Dispatch documents as per the Quoted / Accepted rate.
5. The tenderer should assess the various distances and site conditions by visiting site before submitting their offer.
6. The tenderer is expected to fill up the "Rate Schedule" after satisfying all the terms and conditions already stipulated in the Tender specification.

## **V TIME SCHEDULE**

1. The materials / equipments / components are likely to be received in stages for a period of **33 (THIRTY THREE Months.)** However for a further grace period of **Four (4) months** the contractor may have to handle certain materials without any additional charges. Contractor in consultation with site In charge shall be allowed for reduction of T & P, manpower deployed, after receipt of all heavy / major consignments.
2. The contractor has to mobilize and commence the work within Fifteen (15) days, from the date of issue of Fax letter of intent.
3. During the entire period of contract, the contractor shall maintain proper progress, adequate manpower, requisite handling and transportation equipments, tools and tackles and other consumables etc. to meet the scheduled programme as per the priority given by BHEL Engineer.
4. During the tenure of contract, if BHEL is not satisfied with the progress of work, BHEL have the right to withdraw any portion of work / balance work and get the same done either directly employing their own personnel or through other agency at the risk & cost of the Contractor. The contractor shall not be entitled for any compensation whatsoever in this regard.
5. The scope of work under this contract is deemed to be completed only when so certified by the site Engineer of BHEL.

## **VI QUANTUM OF WORKS**

The tonnage to be handled for unloading from wagon / transport carrier / truck is approximate. The quantum of work depends on site conditions. The rate quoted by the tenderer and accepted by BHEL for different categories of work shall alone be applicable. No revision in rate will be entertained for variation in quantum of work in different categories.

## **VII UNLOADING TRANSPORTATION AND STACKING OF COMPONENTS**

The materials unloaded from the transport carrier / wagon truck shall be shifted to project stores / storage yard and properly stacked immediately. The unloading point shall be kept free for accommodating next consignment. If the same is not followed, any demurrage charged / and or other losses are incurred the same will have to be borne by the contractor.

## **VIII OVER RUN CHARGES**

Incase due to reasons not attributable to the contractor, the work gets delayed and completion time gets extended beyond **Thirty Three (33) months** from the date of commencement of the work the contractor shall not be entitled for any over run compensation (ORC) for a period of first **Four (4) months** after the expiry of **33 months**. Incase ORC arises the same will apply at **Rs.20,000/-** (Rupees twenty Thousand only) per month for extension to the completion period beyond **37 (33+4) months** as stated above duly taking into account the balance work at the end of that period.

The period of overrun will have to be ascertained before the commencement of grace period.

## **IX PRICE ESCALATION**

The quoted / accepted rate has to be kept firm for the entire contractual period including total extended period if any and no claim for revision of rates is allowed under any circumstances.

However the contractor shall maintain sufficient work force and other resources required for completion of the job expeditiously for the entire contractual period including total extended period.

## **X IMPORTANT CONDITIONS FOR PAYMENT**

It may be noted that the first running bill will be released only on production of the following.

- i. PF Registration No.
- ii. Labour Licence No.
- iii. Workmen Insurance Policy No.
- iv. Un Qualified Acceptance for Detailed L.O.I.
- v. Initial 50% Security Deposit.
- vi. Rs.100/- Stamp Paper for Preparation of contract agreement
- vii. Contractor to mobilise at site min 500 Nos of wooden sleepers of size 6" x 8" and of min length of 1.5 metre or concrete sleepers of size 6" x 8" and cumulative length 500 Nos x 1.5 metre
- viii. Contractor to mobilise at site further 500 Nos of wooden sleepers or equivalent concrete sleepers as specified in condition vii to be eligible for release of fourth running bill.

The number of wooden sleepers of 1000 Nos by fourth month is the minimum requirement and is not indicative of total Nos of sleepers required for handling the total material that are to be received and stored. It is the responsibility of the contractor to arrange sleepers as per requirement for stacking all the materials received as per BHEL storage and preservation manual and as per instructions of BHEL Engineer.

The stock in the yard during the execution of the work can reach a maximum of 18,000 to 20,000 MT and one wooden sleeper for every 5 MT of material is the general thumb rule that can be adopted for arriving at the sleepers requirement.

**Note :** Tarpaulins as per requirement will be provided by BHEL as decided by BHEL Engineer.

The capacity of cranes deployed should be such that any material to be handled should be done by engaging one or two cranes only. The maximum single weight to be handled other than ODC consignments( boiler drum ,LP rotors, Station Transformers) will be sealing girders of boiler weight 125 MT (approx) and Generator rotor 75 MT ( approx)

## **XI**

### **OTHER STATUTORY REQUIREMENTS**

- 1) The Contractor shall submit a copy of Labour License obtained from the Licensing Officer (Form VI) u/r25 read with u/s 12 of Contract Labour (R&A) Act 1970 & rules and Valid WC Insurance copy or ESI Code (if applicable) and PF code no along with the **first** running bill.
- 2) The contractor shall submit monthly running bills along with the copies of monthly wages (of the preceding month) u/r78(1)(a)(1) of Contract Labour Rules, copies of monthly return of PF contribution with remittance Challans under Employees Provident Fund Act 1952 and copy of renewed WC Insurance policy or copies of monthly return of ESI contribution with Challans under ESI Act 1948 (if applicable) in respect of the workmen engaged by them.
- 3) The Contractor should ensure compliance of Sec 21 of Contract Labour (R&A) Act 1970 regarding responsibility for payment of Wages. In case of "Non-compliance of Sec 21 or non-payment of wages" to the workmen before the expiry of wage period by the contractor, BHEL will reserve its right to pay the workmen under the orders of Appropriate authority at the risk and cost of the Contractor.
- 4) The Contractor shall submit copies of Final Settlement statement of disbursal of retrenchment benefits on retrenchment of each workmen under I D Act 1948, copies of Form 6-A(Annual Return of PF Contribution) along with Copies of PF Contribution Card of each member under PF Act and copies of monthly return on ESI Contribution – Form 6 under ESI Act 1948 ( If applicable) to BHEL along with the Final Bill.
- 5) In case of any dispute pending before the Appropriate authority under I D act 1948, WC Act 1923 or ESI Act 1948 and PF Act 1952, BHEL reserve the right to hold such amounts from the final bills of the Contractor which will be released on submission of proof of settlement of issues from the appropriate authority under the act.
- 6) In case of any dispute prolonged/pending before the authority for the reasons not attributable to the contractor, BHEL reserves the right to release the final bill of the contractor on submission of Indemnity bond by the contractor indemnifying BHEL against any claims that may arise at a later date without prejudice to the rights of BHEL.

## **XII SERVICE TAX**

Service Tax as applicable for this tender Specification will be paid extra by BHEL

The contractor may claim the Service Tax in their R.A.bill and the same will be paid by BHEL, on production of copy of registration certificate. Proof of remittance of service tax by the contractor to the service tax authorities, relating to previous RA bill, has to be produced from the second running bill onwards.

## **TAXES, DUTIES, LEVIES**

Refer to clause 2.8.4 of general conditions of contract ( section-II) in this regard.

## **NEW LEVIES / TAXES**

In case the government imposes any new levy / Tax after award of the work, BHEL shall reimburse the same at actuals on submission of documentary proof of payment subject to the satisfaction of BHEL that such new levy / Tax is applicable to this contract. No reimbursement on account of increase in the rate of existing levies shall be made.

## **XIII PROVIDENT FUND & MINIMUM WAGES**

You are required to extend the benefit of Provident Fund to the labour employed by you in connection with this contract as per the Employees Provident Fund and Miscellaneous Provisions Act 1952. For due implementation of the same, you are hereby required to get yourself registered with the Provident Fund authorities for the purpose of reconciliation of PF dues and furnish to us the code number allotted to you by the Provident Fund authorities within one month from the date of issue of this letter of intent. In case you are exempted from such remittance an attested copy of authority for such exemption is to be furnished. Please note that in the event of your failure to comply with the provisions of said Act, if recoveries therefore are enforced from payments due to us by the customer or paid to statutory authorities by us, such amount will be recovered from payments due to you.

The contractor shall ensure the payments of minimum labour wages to the workmen under him as per the rules applicable from time to time in the state.

The final bill amount would be released only on production of clearance certificate from PF/ESI and labour authorities as applicable.



#### **XIV SCOPE OF WORK FOR PRESERVATION OF MATERIALS AT STORES, IF REQUIRED**

##### **PRESERVATION OF COMPONENTS**

Components are received duly painted from manufacturing unit. Due to handling or deterioration due to life of paint or deterioration due to climatic / storage condition etc., paint may get peeled off or rubbed off. This needs preservation to avoid further rusting of components. Also, during this activity, the painting / repainting of W.O. No. and other relevant particulars that may need to be painted on the components is also covered within the scope of work.

This may call for handling / re handling of materials. All materials consumables, including, manpower, tools and plant required for this work has to be provided by the contractor. **Required preservative paints, thinner, grease for the purpose of preservation, will be supplied by BHEL, free of cost.** Crane, forklift or any other handling equipment as may be required shall be arranged by the contractor at their cost. BHEL will not provide any T & P, for this scope of Work. **Other consumables such as brush, kerosene, emery paper etc., required for surface preparation before application of preservative is in contractors scope.**

The tenderer has to quote the rate separately as called for in rate schedule.

For either touch up painting or full coat painting, the surface to be painted shall have to be thoroughly cleaned with emery paper, wire brush either manually or mechanically.

Payment will be made as per rate schedule, which shall be inclusive of supply of required manpower, tools and plants, consumables such as brush, wire brush, compressor required for spray painting etc., handling either manually or mechanically and supervision required for the work.

The contractor is expected to submit periodic reports on the preservation carried out for perusal by BHEL Engineer, in the formats as specified by BHEL Engineer.

The approximate quantity of materials for preservation painting including handling of materials at BHEL store, is around 15,000 metric tons.

The contractor shall be responsible for any damages of materials / components due to mishandling in his custody. All precaution shall be taken to handle components safely.

BHEL's engineers decision shall be final regarding the type and nature of painting to be done on the boiler components as also for arranging the components sequentially to suit erection requirement.

Necessary lifting tackles tools, wire ropes, slings of suitable capacities and equipment incidental to carryout preservation and rearranging of components shall have to be arranged by the contractor. All such tools and tackles and equipments shall be approved by BHEL before they are used actually for the work.

The materials/components at stores shall be handled with care and diligence. Any loss or damage to BHEL due to contractor's lapses, will have to be made good by the contractor. Otherwise BHEL will arrange for repair / replacement and recover the expenses incurred from the contractor's bills.

Proper safety precautions shall be followed while rearranging sequentially to avoid accidents. Before commencing the work contractor shall submit a safety plan to the authorized BHEL official. The 'Safety Plan' shall indicate in detail the measures that would be taken by the contractor to ensure safety of men, equipment, material and environment during execution of the work. The plan shall take care to satisfy all requirements specified hereunder. The contractor shall submit safety plan along with his offer.

All the necessary skilled/unskilled man power to carry out the above work shall be arranged by the contractor. The persons so employed shall be fully trained and experienced in the nature of work.

Contractor shall arrange for items such as wire brushes, wire brushing / buffing machine, painting brushes, emery paper, cotton waste, ladders, spray painting equipments such as compressors, spray guns etc., and supervisors.

The tenderers shall quote rate/metric tons as per the rate schedule. Conditional offers are liable to be rejected.

Weight indicated in shipping list will be final. For the purpose of progressive payment the weight, declared in the drawings / shipping list etc., will be taken into account.

## **SECTION – VII**

### **APPENDIX – I**

#### **PROCEDURE TO BE ADOPTED BY THE CONTRACTOR IN CASE OF SHORT/DAMAGED NON DELIVERED CONSIGNMENTS DESPATCHED BY ROAD**

##### **I. NON DELIVERED CONSIGNMENTS PROCEDURE**

1. Apply for and obtain a certificate of Non-delivery from the Road carriers.
2. File a Notice of claim on the carriers sending the same to their registered office by Registered Post A.D. and forwarding a copy to their delivery office, immediately or within 6 months from the date of Lorry way Bill.

The following documents should be obtained and submitted to BHEL in charge at site.

1. Original and Non-delivery certificates.
2. Copy of claim notice filed on the carriers.
3. Postal acknowledgement card or reply received for the claim notice.
4. If the package originally non-delivered is traced and offered for delivery at a later date apply for an obtain open delivery in respect of the same before clearance.

##### **II. SHORT DELIVERY**

(Non delivery of a few packages in the consignment)

##### **PROCEDURE**

1. Obtain a certificate of Short Delivery from the Road Carriers.
2. File a notice of claim on the carriers sending the same to their Registered Office by Registered post with A.D. and forwarding a copy to their delivery office immediately or within 6 months from the date of Lorry Way Bill.

Documents to be submitted to BHEL Site Engineer

1. Original short delivery certificate.
2. Copy of claim notice filed on the carriers.
3. Postal acknowledgement or reply received, for the claim notice.
4. If the package originally short delivered is traced out and offered for delivery at a later date, apply for and obtain open delivery in respect of the same before clearance.

### **III. SHORT/DAMAGE IN PACKAGES DELIVERED FROM THE ROAD CARRIERS**

1. Apply for and obtain open delivery from the road carriers.
2. If open delivery is refused.
  - a. Arrange for survey at the carrier's Godown by a licensed insurance surveyor after giving notice in writing.
  - b. Take delivery under protest in writing against acknowledgement or by Registered Post with A.D.
  - c. Make necessary endorsement regarding the loss/damage on the reverse of the consignee copy of the lorry way bill before surroundings it to the carriers.
3. File a notice of claim on the carriers sending the same to their registered office by Registered Post with A.D. and forwarding a copy to the delivery office immediately or within 6 months from the date of lorry way bill.
4. Documents to be submitted to BHEL site In charge.
  - a. Claim Form
  - b. Insurance Policy / Certificate in Original  
(If specific document is issued)
  - c. Original open delivery certificate and report of Insurance survey if any conducted to the final destination.
  - d. Additional documents required in the event of refusal of open delivery by the carriers.

1. Copy of notice given to the carriers advising about the survey at their Godown before clearance.
2. Survey report of the licensed insurance surveyor with the bill/receipt for payment of survey fee and expenses.
3. Copy of letter of protest extended to the carriers with the postal acknowledgement received thereto.
4. Photocopy of the lorry way bill with the endorsement of the discrepancies made thereon.

**SECTION VII**  
**APPENDIX I B**  
**PROCEDURE TO BE ADOPTED BY THE CONTRACTOR IN CASE OF**  
**SHORT/ DAMAGED / NON- DELIVERED CONSIGNMENTS**  
(RECEIVED BY RAIL)

As regards consignment despatched by Rail, the following steps should be taken:

1. Immediately after R/R is received, the consignee will handover the same to the representative of the Railway Authorities and arrange to effect delivery of the consignments immediately on their receipts. Delay may cause deterioration of goods apart from attracting demurrage charges.
2. If cases / packages arrive short or in a damaged condition, or show even the slightest sign of having been tampered with, open delivery should be insisted upon and a shortage/damage certificate extract from a "Open Delivery Book" of the Railways obtained. Should the railway refuse the grant open delivery, the good should at least be got check weighed against weight given in the R/R before taking delivery. If Railways refuse to check weightment, delivery shall be taken giving a qualified receipt to the Railways and under written protest under intimation to BHEL Authorities at site. A protest shall also be lodged to the Railways on behalf of the consignee against an allowance or on assessment of damage, which is considered insufficient by the consignee.
3. In case of short delivery and non-delivery immediately notice losses shall be filed with the Railway authorities at places of despatch and destination, as also at any intermediate Railway if it is different one, under intimation to BHEL Authorities.
4. BHEL authorities shall be intimated if goods are not traced and delivery not taken within 10 days from the date of R/R, or if goods have been taken delivery of under "Open Delivery" as detailed in (2) shortage certificate duly obtained from the Railways to enable formal claims to be lodged under Section 78 of the Indian Railways Act 1980. If the goods are traced and offered for delivery at a later date. "Open Delivery" shall be insisted upon and shortage / damage certificate obtained as it is possible that the goods may have been damaged due to prolonged delay in delivery.
5. All letters to the Railway authorities shall be addressed per "Registered Post Acknowledgement Due" and the Postal amt/or other acknowledgement shall be preserved.

**SECTION – VII**  
**APPENDIX – II**

**WEIGHT SCHEDULE**

**Kakatiya Thermal Power Project – Unit –I 1 x 500 MW**

SNo	UNIT	DESCRIPTION OF SUPPLIES	WEIGHT IN M.TONNES ( APPROX)
01	Trichy	SG	18300
02	BAP Ranipet	ESP & SG Aux etc.,	7900
03	Piping Centre	Piping- PCP, SG Piping, LP etc.	2000
04	Haridwar	ST &STG, Aux	3300
05	Hyderabad	Mills, Pumps, TD BFP ,FST Heaters etc.,	2400
06	Bhopal	Transformers, SWGRs ,Motors, RE joints, Flash tanks etc.,	800
07	EDN Bangalore	DDC Panel, Control Desks and Cables etc.,	850
08	CBU Bangalore	Ceramic Insulators, Mill lining	550
09	PEM / New Delhi	BOP , Pumps, Valves, Cables etc.,	1000
10	Jhansi	Transformer, Bus ducts etc.,	600
11	PSSR & Others	T&Ps Consumables, Furniture Etc.,	400

**Total Weight**

**38000**

## **NOTE TO WEIGHT SCHEDULE**

1. The product list and the manufacturing units indicated above are indicative for estimation purpose only. The weight mentioned above is approximate and liable to vary as per design consideration of the manufacturing unit.
2. The Payment will be made at the quoted / accepted rates for the tonnage actually handled.
3. Besides the products indicated above there is likelihood of addition of any products integral to Boiler, TG and its auxiliaries. Tenderers quoted rate shall be applicable for such products also.
4. The weight indicated in the rate schedule (Price Bid) from Sl.No.4 to Sl.No.9 is not covered in the above weight schedule.
5. The product list and the manufacturing units indicated above are indicative for estimation purpose only. The weight mentioned above is approximate and liable to vary as per design consideration. The quoted rate shall be applicable for such products also .
6. The payment will be made to the tonnage actually handled.



**SECTION – VII**  
**APPENDIX – III**  
**MAJOR ODC CONSIGNMENTS**

S.No	DESCRIPTION	SIZE IN mm	WEIGHT OF EACH (MT)
01	Boiler Drum	ID 1778 x 25000 L T 195 / 165	240
02	Bottom Ring Header	OD 914 x 20000L T 90	48
03	Ceiling Beam Structure	1500 W x 3800H x 32000L	125
04	Burner Wind Box	820 W x 16000L	25
05	ID Fan Motor		25
06	APH Centre Section ( CE)	3230 x 2005 x 12160	33.5
07	APH Centre Section ( HE)	3230 x 2005 x 12346	33.5
08	Front Water Box ( Gen Side)	7645 x 4460 x 2640	32.6
09	Front Water Box ( Tur. Side)	7645 x 4460 x 2640	32.6
10	Rear Water Box (Gen Side)	6655 x 4460x2495	21.5
11	Rear Water Box (Tur. Side)	6655 x 4460x2495	21.5
12.	HP Turbine	5660 x 3100 x 2880	86.5
13	IP Rotor	6650 x 2700 x 2600	27.4
14	IP outer casing V / H	3610 x 5400 x 2600	26
15	IP outer casing L / H	3610 x 5400 x 2600	26
16	LP Rotor	8735x3800x41700	89.8
17	Longitudinal Girder Right	8200 x 1680 x 1950	21.4
18	Longitudinal Girder Left	8200 x 1680 x 1950	21.4
19	LPC inner – outer upper half	8640 x 3630 x 2500	42
20	LPC inner – casing assembly ( LH)	9100 x 3890 x 3180	53

S.No	DESCRIPTION	SIZE IN mm	WEIGHT OF EACH (MT)
21	IV & CV casing with valve	5040 x 4690 x 2770	33.2
22	ESV & CV casing with valve	3600 x 3190 x 2500	23
23	TG Rotor	14000 x 1850 x 1750	73.1
24	End shield lower half ( TE)	6200 x 2350 x 2670	31.1
25	End shield upper half ( TE)	6125 x 2050 x 2650	28.3
26	B'less exciter set	5750 X 2350 X 3400	32.9
27	Mill base assembly	2871 x 3670 x 4242	57
28	Generator Transformer	4800 X 3700 X 4050	150
29	Station Transformer	6700 X 3200 X 4100	90
30	Unit Aux Transformer	5500 x 2800 x 3600	55
31	ID Fan Motor	4860 x 4330 x 3700	31
32	BFP Motor	5000 x 5200 x 3300	25
33	Power Transformer-15 MVA	3500 x 2000 x 2800	32
34	Power Transformer-7.5 MVA	2400 x 1500 x 2900	19
35	Power Transformer-16 MVA	3200 x 1800 x 3100	36
36	Power Transformer-7.5 MVA	2600 x 1600 x 2700	25
37	BFP Drive Turbine		56
38	HP Heater 5A		45
39	HP Heater 5B		45
40	HP Heater 6A		58
41	HP Heater 6B		58
42	LP Heater 2		26

S.No	DESCRIPTION	SIZE IN mm	WEIGHT OF EACH (MT)
43	LP Heater 3		21
44	Deaerator Storage Tank		
	Left hand section		29.9
	Middle Section		24.6
	Right hand section		29.9
45	Deaerator Header		34.2

## **SECTION VII**

### **APPENDIX – IV**

#### **DECLARATION SHEET**

I, \_\_\_\_\_ hereby certify that, all the information and data furnished by me with regard to this Tender Specification No.BHEL:PSSR:SCT:1201 are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations in detail and agree to comply with the requirements and intent specifications.

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

**TENDERER'S NAME & ADDRESS**

**AUTHORISED REPRESENTATIVE'S  
SIGNATURE WITH NAME & ADDRESS**

## **SECTION VII**

### **APPENDIX – V**

**TENDER SPECIFICATION NO BHEL:PSSR:SCT:1201**

#### **CERTIFICATE OF DECLARATION FOR CONFIRMING KNOWLEDGE ON SITE CONDITIONS**

We,

hereby declare and confirm that we have visited the project site under subject,  
namely and acquired full knowledge and information about the site conditions.

We further confirm that the above information is true and correct and we will  
not raise any claim of any nature due to lack of knowledge of site conditions.

#### **TENDERER'S NAME AND ADDRESS**

**Place:**

**Date :**

**SIGNATURE OF AUTHORISED  
REPRESENTATIVE WITH NAME & ADDRESS:**

**OFFICE SEAL**

# Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

## Power Sector – Southern Region

## EVR Periyar Building

690 , Anna Salai, Nandanam, Chennai – 600 035.

## SECTION VII

## APPENDIX - VI

## CHECK LIST

**TENDER SPECTFICATION NO: BHEL: PSSR : SCT : 1201**

Tenderers are required to fill in the following details:

- |    |   |   |        |
|----|---|---|--------|
| 1. | a) Name of the Tenderer with address  | : | YES/NO |
|    | b) Telegraphic/Telex address  | : | YES/NO |
|    | c) Phone (Office/Residence)   | : | YES/NO |
|    | d) Management Structure of firm (Pvt. Ltd/Public Ltd./Partnership/Sole Proprietorship) Documentary proof For the same enclosed) | : | YES/NO |
| 2. | Whether EMD submitted as per Tender specifications terms and Conditions   | : | YES/NO |
| 3. | Validity of offer (offer shall be kept open for acceptance for minimum six months)  | : | YES/NO |
| 4. | Whether tenderer visited the erection site and acquainted with the site conditions before quoting                               | : | YES/NO |

SIGNATURE OF THE TENDERER

- |    |  |   |        |
|----|--|---|--------|
| 5. | Whether the following details are furnished  | : | YES/NO |
|    |  |   |        |
| a) | Previous Experience  | : | YES/NO |
| b) | Present assignments  | : | YES/NO |
| c) | organization chart of the company  | : | YES/NO |
| d) | Company financial status   | : | YES/NO |
| e) | Incase of company, proof of Registration of the company  | : | YES/NO |
| f) | Memorandum & Articles of Association of company/copy of Partnership deed   | : | YES/NO |
| g) | Profit & Loss account for the Last 3 years   | : | YES/NO |
| h) | Audited Balance sheet for the Last 3 years   | : | YES/NO |
| i) | Income Tax clearance certificate (latest)  | : | YES/NO |
| j) | Solvency Certificate from a Nationalised Bank  | : | YES/NO |
| k) | Power of Attorney of the person Signing the tender duly attested By a Notary Public  | : | YES/NO |
| l) | Manpower organization chart<br>With deployment plan at site<br>For posting of Engineers/super<br>Visitors and workers/labourers<br>For satisfactory completion of<br>Work under this specification | : | YES/NO |

SIGNATURE OF THE TENDERER

- |     |   |   |        |
|-----|---|---|--------|
| 6.  | Whether the Tenderer is conversant with local labour laws & conditions  | : | YES/NO |
| 7.  | Whether the tenderer is aware of all safety rules and codes   | : | YES/NO |
| 8.  | Whether the Declaration sheet (as per appendix enclosed   | : | YES/NO |
| 9.  | Time required for mobilization of of site organization and start of work  | : | YES/NO |
| 10. | Whether list of tools and Plants available with the contractor and proposed to be deployed for this work enclosed | : | YES/NO |
| 11. | Whether all the Pages are read understood and signed.   | : | YES/NO |
| 12. | Deviations, if any Pointed out  | : |        |
| 13. | Whether PF exemption No. is allotted by RPFC of your area if so, indicate number                                  | : | YES/NO |

SIGNATURE OF THE TENDERER



# **TENDER SPECIFICATION**

**BHEL:PSSR:SCT: 1201**

**FOR**

Receipt, Unloading at Site Stores / Storage  
Yard, Verification, Stacking and Preservation  
of Materials / Components for 1 X 500 MW set

at

**KAKATIYA THERMAL POWER PROJECT  
1 X 500 MW**

**Chelpur Village, Ghanur Mandal,  
Warangal District, Andhra Pradesh**

**PART – II PRICE BID**

**BOOK NO :**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.



## **Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)

Power Sector – Southern Region

EVR Periyar Building

690 , Anna Salai, Nandanam, Chennai – 600 035.

TENDER SPECIFICATION NO:BHEL:PSSR:SCT:1201

### NAME OF WORK

Receipt , Unloading at site stores / storage yard, verification, stacking and preservation of materials / components for 1 x 500 MW set at Kakatiya Thermal Power Project ,Chelpur Village, Ghanur Mandal, Warangal district, Andhra Pradesh.

(PRICE BID)

PART II

Issued to  
M/s.

For and on behalf of  
BHARAT HEAVY ELECTRICALS LIMITED

Senior Deputy General Manager/Contracts

(This tender document is not transferable)

Place: Chennai-600 035.

Date:

## SECTION VII – APPENDIX – VII

### Kakatiya Thermal Power Project 1 x 500 MW - RATE SCHEDULE FOR MATERIAL HANDLING BHEL:PSSR:SCT:1201

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
1.	Receipt / taking delivery/ unloading, transporting, handling, unloading at stores/storage area and stacking including supply of sleepers, wooden logs, concrete Blocks etc, as required and handling of such supports for raising, unpacking and handling of components for verification purpose and check measurements, repacking and stacking including all loading, unloading and handling operations using your own cranes, tractor/carriers, lifting and handling equipments, tools, tackles, storing and handing over thereof all materials / components auxiliaries received from various manufacturing units and their sub vendors and suppliers, as per the specification and BHEL Engineers instructions. The scope includes handling of certain consumables such as lubricants, electrodes, paints chemicals etc supplied by units or any other agencies as part of supply items, and also to arrange required computer and accessories including required operators as detailed in the Tender Specification.			

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
a)	For consignments received in Trucks/ Trailors through road	37000 MT		
2.	Receipt, unloading, unpacking, verification and stacking of the following equipments from Trucks / Trailors received, with your own cranes and other unloading equipments like jacks, winches, slings and sleepers etc.			
	a. Boiler Drum - 1 NO	240 MT		
	b. H.P Module - 1 NO	90 MT		
	c. L.P. Rotor - 1 NO	90 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
	d. 207 MVA 1 Phase – Generator Transformer 3 Nos -( 175 MT Each )	525 MT		
	e. Station Transformer - 1 NO	90 MT		
3	Generator stator			
3a	Generator Stator ( by Rigging Method ) - 1 NO	340 MT		
3b	<b>Alternatively</b>  Generator stator ( by using Portal crane given free of charges inclusive of operator and slings -1 NO	340 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
4.	Receipt, Unloading, Unpacking, Verification and Stacking in Stores / Storage yard of certain materials such as office furniture, T & P and other non-erectable materials received from other sites, with your own cranes and other unloading equipments.	400 MT		
5	Clearance and taking delivery from Railway stations situated in the following places, based on RR and arrange for transportation to site, unloading and stacking handing over to BHEL stores, with contractors own T & Ps.			
	a. From Uppal Railway Station to site stores – (Approximate distance 45 Kms )	100 MT		
6	Clearance and taking delivery from transport or Godown situated at the following places based on LWB/PWB and arrange for transportation to site, unloading, stacking and handing over to BHEL stores, with your own cranes and other T & P's			

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
	a. From Warangal to site storage area 70 Kms	100 MT		
	b. From Bhoopalapally to site storage area 10 Kms	100 MT		
7.	Shifting of materials already stored and Restacking at storage yard / stores including all loading, transporting and handling within the storage premises as per the instructions of BHEL, with your own cranes and other T & P's.	1000 MT		
8.	For providing services for preservation painting of Boiler, T.G. and all other Erection components at storage yard/stores including supply of all consumables excepting all preservative paints, complete cleaning and painting of one coat of preservative paint/compound as per BHEL Engineer instructions and specifications using your own Crane, Fork lift or any other handling equipments, with your own operators.	7000 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
	The preservative consumables such as paints , thinner, Grease etc., will be provided by BHEL, free of cost. ( Brushes and other accessories for painting and greasing will be contractors scope ) Approximate tonnage for preservation			
9	Packing and loading of materials on trucks / trailers using contractors own crane and T & P 's at site for transporting from site to other places	300 MT		

SIGNATURE OF THE TENDERER

**TOTAL CONTRACT VALUE WITH 3a Rs. ....**  
(In words Rs. ....)

**TOTAL CONTRACT VALUE WITH 3b Rs. ....**  
(In words Rs. ....)



#### **NOTE TO RATE SCHEDULE :**

1. The quantity mentioned in column 3 is approximate and are liable for variation. Payment shall be made for the actual Quantity handled, at the actual tonnage rate accepted.
2. No revision in rate will be entertained for variation in quantity or size of major components or quantum of work in different categories.
3. For the purpose of payment gross weight indicated in LWB/PWB will be taken into account for calculating the tonnage handled.
4. The rates quoted/accepted for above items shall be operated according to site conditions / requirement. The items indicated from Sl.No.4 to Sl.No.9 may be operated either partial or full or totally Nil. The bidders to take note these aspects and quote accordingly.
5. The tenderer shall have to assess the correct distance before quoting wherever distance are indicated, as the distance indicated are only approximate.
6. Sleepers, wooden Blocks / logs and concrete blocks required for raising height of components for stacking are to be arranged by the contractor at his cost.
7. Tenderers are requested to quote their rates, only in the price bid (part II) provided by BHEL. Quoting of rates in any other form / formats will not be entertained.

SIGNATURE OF THE TENDERER