

# **TENDER SPECIFICATION**

**BHEL:PSSR:SCT: 1357**

**FOR**

Receipt, Unloading at Site Stores /  
Storage Yard, Verification, Stacking and  
Preservation of Materials / Components  
for 2 X 500 MW sets

at

**TUTICORIN THERMAL POWER PROJECT  
TUTICORIN, TAMILNADU**

**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: 1357

Messrs

Date :

Dear Sir,

**SUB:** Receipt , Unloading at site stores / storage yard, verification, stacking and preservation of materials / components for 2 x 500 MW sets at Tuticorin Thermal Power Project , Tuticorin Tamilnadu .

Please find enclosed one set of non-transferable tender documents containing **63** 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.2,00,000/- (Rupees Two Lakhs 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 **06.08.2009** at **15.00** Hrs. The Technical bids, will be opened on the same day at **15.30** 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

ADDITIONAL GENERAL MANAGER / CONTRACTS

This Tender document is not transferable.

Place : Chennai -35

Encl: One set of Tender documents.

**BHARAT HEAVY ELECTRICALS LIMITED**  
**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 works like loading and unloading of heavy equipments for any power plant with a unit capacity of 110 MW and above or handling of heavy equipments / components of industries such as Petro Chemicals, Steel plants, Refineries , Fertilizer Plant in the last seven years
- b) The bidders should have a minimum average financial turn over of **Rs.48 Lakhs** per year in the preceding three years ending 31<sup>st</sup> March 2008.

The Bidder must have earned profit in any one of the last three financial years ending 31.03.2008 and should have positive net worth as on 31.03.2008.

Bidder should submit audited balance sheet and profit & loss account of the company for last three years ending 31.03.2008 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 Additional 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.2,00,000/- (Rupees Two Lakhs 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.**

Additional 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: 1357

Description	EMD
Receipt, Unloading at Site Stores / Storage Yard, Verification, Stacking and Preservation of Materials / Components for 2 X 500 MW sets at Tuticorin Thermal Power Project , Tuticorin, Tamilnadu.	Rs.2,00,000/- (Rupees Two Lakhs only)

Cost of Tender Documents : Rs.1040/-  
(Including all Taxes)

Sale Starts on : 17.07.2009

Sale closes on : 05.08.2009

Due date and Time for Submission : **06.08.2009, 15.00 Hrs**

Date and time for opening Of Technical Bids : **06.08.2009 15.30 Hrs**

## **QUALIFICATION REQUIREMENT**

- a) The bidders should have executed material handling works like loading and unloading of heavy equipments for any power plant with a unit capacity of 110 MW and above or handling of heavy equipments / components of industries such as Petro Chemicals, Steel plants, Refineries , Fertilizer Plant in the last seven years
- b) The bidders should have a minimum average financial turn over of **Rs.48 Lakhs** per year in the preceding three years ending 31<sup>st</sup> March 2008.

The Bidder must have earned profit in any one of the last three financial years ending 31.03.2008 and should have positive net worth as on 31.03.2008.

The bidders should submit audited balance sheet and profit & loss account of the company for last three years ending 31.03.2008 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 Additional 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 therefore. **TENDER NOT ACCOMPANIED BY THE PRESCRIBED EARNEST MONEY DEPOSIT ARE LIABLE TO BE SUMMARILY REJECTED.**

Additional General Manager /Contracts

*TENDER SPECIFICATION : BHEL:PSSR:SCT:1357*

*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

Additional 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:1357 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.2,00,000/- (Rupees Two Lakh 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.2,00,000/- (Rupees Two Lakh 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

**NTPL 2 X 500 MW – TUTICORIN THERMAL POWER  
PROJECT  
PROJECT INFORMATION**

1	Project Name	NTPL 2 x 500 MW Tuticorin Thermal Power Project
2	Project Owner	NLC Tamilnadu Power Ltd (NTPL )
3	Elevation above MSL	+3.0 Meter
4	Near by	Existing 5 x 210 MW thermal plant
5	Nearest City	Tuticorin
6	Roads & Highways	All weather road connecting Tuticorin port highway
7	Ambient Temperature	Absolute Max 42°C & Min 15°C
8	Relative Humidity	100%( Max) 36% ( Min) 75% Design
9	Annual Rainfall	2540.8 mm (Max) 1175.7 mm ( Min)
10	Wind Direction	November to Jan : from NW & NE Feb to March : East & south West June: From SW July to August: From NW Sept to October : from SE & SW
11	Wind Speed	11.8 KMPH ( average ) 50 m /sec ( Max )
12	Earth quake data	Zone III as defined in IS 1893-2002

13	Nearest Airport	Tuticorin at a distance of 35 Km from site
14	Nearest Sea port	Tuticorin port 3 Kms from site
15	Nearest Railway Station	Tuticorin
16	Ambient temperature for Electrical appliances	50°C

**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, 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 with in 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.**

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

## **3.0 FACILITIES TO BE PROVIDED BY THE CONTRACTOR**

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.

- Contractor has to make his own arrangements for his labour tenements.
- The contractor will make his own arrangement for his communication needs at his site office.
- Contractor shall deploy labour at site strictly in accordance with the guidelines approved by our Customer.
- For movement of cranes, tractor, trailers, if sleeper/plates are required, the same shall be arranged by contractor at his own cost.
- The contractor will provide two computers and its accessories with operator for data entering for store records.
- 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- contactors on BHEL authorisation, data entering and maintaining receipt & store records both in ledgers and in computers, reporting of shortage/damages, preparing insurance claims etc.,

#### **4.0 Specification of Computers**

(To be Arranged by the Contractor at their Cost)

<b>Sl.No</b>	<b>Features</b>	<b>Minimum Requirements</b>
1	Processor	Intel Pentium IV, 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.

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

Additional cranes, if required have to be mobilized by the contractor

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.

5.1 The following minimum equipments has to be arranged by the contractor at their cost.

1	40 T Crane	1 No
2	14T / 18T Mobile crane	1 No
3	8T Hydro Mobile Crane	2 Nos
4	30/40T Tractor Trailer	1 No
5	10/20T Tractor Trailer	1 No

**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.**

5.2 **Incase of delay in unloading / fail to unload the equipment immediately, BHEL reserve the right to unload the equipments / components thro' other agencies. The consequential cost of the such work will be deducted from the contractor's running bill / levied from contractor. BHEL will provide 75 T crane free of charge on sharable basis ,fuel and crane operator to be arranged by contractor at his cost.**

## **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**

#### **SUBCONTRACTOR 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. ELCB'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 / wharf ages 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 / wharf age together with the freight the amounts so paid as demurrages / wharf ages 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, Wooden / Concrete Sleepers, Wooden Logs, Concrete Blocks and Tarpaulins etc., wherever deemed necessary, are arranged by BHEL.**

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, 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, Krebs, 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.

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

1. The contractor shall engage specially skilled labour e.g. 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 Performa 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.
3. 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.
4. The tenderer should assess the various distances and site conditions by visiting site before submitting their offer.
5. 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 **42 (Forty Two Months)**. 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 depending 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 unloading 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 **Forty Two (42) months** from the date of commencement of the work the contractor shall be entitled for over run compensation (ORC). Incase ORC arises the same will apply at **Rs.50,000/- (Rupees Fifty Thousand only)** per month for extension to the completion period beyond **42 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**

PVC applicable with the base index applicable for the scheduled month of bid opening

$$P1 = 0.75 \times PO \frac{(F1-FO)}{FO}$$

Applicable even when F1 is lesser than FO. (Price reduction as applicable).

FO=New all India average consumer price index published by Labour Bureau, Simla, Government of India for Industrial workers (Base 2001 = 100) applicable for the scheduled month of bid opening

F1=All India average consumer price Index published by labour Bureau, Simla, Government of India, for Industrial workers (Base 2001 = 100) applicable for the months under consideration.

P1 =Increase in the billing amount as per the escalation formulae for the particular month of billing.

PO= Billing amount calculated on the accepted contract rate.

Price escalation as per above formula will be calculated and paid (excluding payments towards extra works and overrun, if any) on month to month basis. BHEL however, reserves the right to freeze escalation for that such of duration of delays, from time to time which are entirely attributable to the contractor.

With the provision of price escalation as per the above no claim / compensation on account of any increase whatsoever, (irrespective of whether escalation are steep / unanticipated or not compensated by the above escalation provisions in full towards minimum wages, consumables, electrodes, gases or any other item / reasons) will be payable during the entire period of execution.

## **X TAXES**

### **1. Value Added Tax (VAT) for the works**

Price quoted shall be inclusive of ALL TAXES except service tax.

Notwithstanding the fact that this is only an erection service contract not involving any transfer of materials whatsoever and not attracting VAT liability, being labour oriented job work, for the purpose of VAT the contractor has to maintain the complete data relating to the expenditure incurred towards wages etc. in respect of the staff/workers employed for this work as also details of purchase of materials like consumables, spares etc., interalia indicating the name of the supplier, address and VAT Registration No. and VAT paid for the purchases etc.

The bidder shall get registered with **Tamilnadu** VAT authorities and the registration certificate shall be forwarded to BHEL immediately after commencement of work. In case, the bidder had already registered under **Tamilnadu** VAT, they must quote their registration number and forward copy of Registration Certificate while submitting this tender. The bidder has to obtain VAT clearance certificate from the concerned authorities on completion of work and submit along with the final bill as one of the document for contract closure.

**In case the Bidder decides to include any VAT element along with the quoted price, they shall specify in the price bid,(1) The value of VAT included in the quote, (2) The rate of VAT adopted and (3) On what value, etc. as additional information. If no VAT element is included in the price, the same shall be indicated in the quote.**

The bidder shall quote very competitive price after taking into consideration of above points.

## **2. SERVICE TAX**

**Price quoted shall be exclusive of Service Tax.** The service tax as statutorily leviable and payable by the bidder under the provisions of service tax Law / Act shall be paid by BHEL as per bidder claim through various running bills. **The bidder shall furnish proof of service tax registration with Central Excise Department specifying the name of services covered under this contract.** Registration Certificate should also bear the endorsement for the premises from where the billing shall be done by the bidder on BHEL for this project. The bidder shall obtain prior consent of BHEL before billing the service tax amount.

## **3. OTHER TAXES**

Any other taxes and duties (except VAT & Service Tax) viz. Entry Tax, Octroi, Seignior age, Licenses, Deposits, Royalty, Stamp Duty, other charges / levies, etc. prevailing / applicable on the date of opening of technical bids and any variation thereof during the tenure of the contract are in the scope of bidder. In case BHEL is forced to pay any such taxes, BHEL shall have the right to recover the same from the bidder either from running bills or otherwise as deemed fit.

## **4. NEW LEVIES & TAXES**

In case Government imposes any new levy / tax after award of the work during the tenure of the contract, 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.

## **5. STATUTORY VARIATIONS**

Statutory variations are applicable only in the cases of Value Added Tax and Service Tax. The changes implemented by the Central / State Government in the VAT Act / Service Tax during the tenure of the contract viz. increase / decrease in the rate of taxes, applicability, etc. and its impact on upward revision / downward revision shall be paid/ adjusted from the date of respective variation. The bidder shall give the benefit of downward revision in favour of BHEL. No other variations shall be allowed during the tenure of the contract including extended period, if any.

## **6. DIRECT TAXES**

BHEL shall not be liable towards Income Tax of whatever nature including variations thereof arising out of this contract as well as tax liability of the bidder and their personnel. Deduction of tax at source at the prevailing rates shall be effected by BHEL before release of payment as a statutory obligation, unless exemption certificate is produced by the bidder. TDS certificate will be issued by BHEL as per the provisions of Income Tax Act/Rules.

## **XI 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 License 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. Acceptance for e payment ( format enclosed)

**Mode of Payment :**

All payments due to you will be made through e-remittance / account payee cheque. In case of e-remittance, you are required to fill in the e payment format enclosed along with this tender on your letter head with banker's seal. The duly filled format may be sent along technical bid.

**a. PROVIDEND FUND & MINIMUM WAGES**

- i. You are required to extent 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. Incase 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.
- ii. 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.
- iii. The final bill amount would be released only on production of clearance certificate from PF/ESI and labour authorities as applicable.

## **b. 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 alongwith the first running bill.
2. The Contractor should ensure compliance of Sec 21 of Contract Labour (R&A) Act 1970 regarding responsibility for payment of Wages. Incase 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.
3. The contractor shall submit monthly running bills alongwith the copies of monthly wages ( of the preceding month) u/r 78 (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.
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 Act1948 ( If applicable) to BHEL along with the Final Bill.
5. Incase 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.

## **XI 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 / rehandling of materials. All materials consumables, including, manpower, tools and plant required for this work has to be provided by the contractor. Required paints, grease varnish, oil etc. for the purpose of preservation, will be supplied by BHEL, free of cost. Other consumables to be arranged by the contractor at their 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.

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 handing of materials at BHEL store, is around **7,000 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 A**

#### **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 surrendering 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 dispatched 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 weight , 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 TUTICORIN 2 X 500 MW TPP**

<b>SNo</b>	<b>Unit</b>	<b>Description of Supplies</b>	<b>Approx Weight for two units ( MT )</b>
01	Trichy & Ranipet	SG, ESP & SG auxiliaries Etc.,	58000
02	Piping Centre	PCP , SG Piping, LP Piping Etc.,	10000
03	Hardwar	ST & STG, Aux ( Except Stator )	4500
04	Hyderabad	Mills, Pumps, TDBFB,FST Heaters etc.,	4500
05	Bhopal /Jhanshi	Transformers, SWGRs Motors Etc.,	2500
06	EDN Bangalore	Panel, Cables Etc.,	1000
07	CBU / Bangalore	Ceramic Insulators	600
08	PEM / Delhi	BOP, Pumps, Valves etc.,	1600
09	PSSR	T & Ps, Consumables, Furniture etc.,	2000
10	Civil SR Supply	Reinforcement steel : (8mm to 40 mm) Structural steel : (Plates 6 mm to 63 mm and ISMB / C max 600 mm	20000
	<b>Total Weight for Two units</b>		<b>104700</b>

**Note:-**

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 in 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 SNo:4 to SNo: 8 is not covered in the above weight schedule.

**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	Unit Aux Transformer	5500 x 2800 x 3600	55
29	ID Fan Motor	4860 x 4330 x 3700	31
30	BFP Motor	5000 x 5200 x 3300	25
31	Power Transformer-15 MVA	3500 x 2000 x 2800	32
32	Power Transformer-7.5 MVA	2400 x 1500 x 2900	19
33	Power Transformer-16 MVA	3200 x 1800 x 3100	36
34	Power Transformer-7.5 MVA	2600 x 1600 x 2700	25
35	BFP Drive Turbine		56
36	HP Heater 5A		45
37	HP Heater 5B		45
38	HP Heater 6A		58
39	HP Heater 6B		58
40	LP Heater 2		26
41	LP Heater 3		21
42	Deaerator Storage Tank		

S.No	DESCRIPTION	SIZE IN mm	WEIGHT OF EACH (MT)
	Left hand section		29.9
	Middle Section		24.6
	Right hand section		29.9
43	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:1357 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:1357**

**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**



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 Nationalized 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 With deployment plan at site For posting of Engineers/super Visitors and workers/laborers For satisfactory completion of 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: 1357**

**FOR**

Receipt, Unloading at Site Stores /  
Storage Yard, Verification, Stacking and  
Preservation of Materials / Components  
for 2 X 500 MW sets

at

**TUTICORIN THERMAL POWER PROJECT  
TUTICORIN, TAMILNADU**

**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:1357

NAME OF WORK

Receipt, Unloading at Site Stores /  
Storage Yard, Verification, Stacking and  
Preservation of Materials / Components  
for 2 x500 MW sets at Tuticorin Thermal  
Power Project , Tuticorin, Tamilnadu .

(PRICE BID)

PART II

Issued to  
M/s.

For and on behalf of  
BHARAT HEAVY ELECTRICALS LIMITED

Additional General Manager/Contracts

(This tender document is not transferable)

Place: Chennai-600 035.

Date:

**SECTION VII – APPENDIX – VII-Tuticorin Thermal Power Project 2 x 500 MW - RATE SCHEDULE FOR**

**MATERIAL HANDLING**

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 ( <b>For stacking the material above ground level , wooden / concrete sleepers, wooden logs, concrete blocks and tarpaulin etc., wherever deemed necessary will be supplied free of charge by BHEL</b> ) and handling of Wooden sleepers and wooden logs for raising, unpacking and handling of components for verification purpose and check measurements, repacking and stacking including all loading, unloading and handling operations using Contractor's 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.			
1a	For consignments received in Trucks/ Trailors through road	96750 MT		
1b	For Consignments received in Railway wagon through Rail at Harbour Railway yard	5000 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
2.	Receipt, unloading, unpacking, verification and stacking of the following equipments from Trucks / Trailors Railway wagon received, with your own cranes and other unloading equipments like jacks, winches, slings and sleepers etc.			
	a. Boiler Drum - 2 NO	430 MT		
	b. H.P Turbine - 2 NO	180 MT		
	c. L. P. Rotor - 2 NO	180 MT		
	d. Generator Rotor -2 NO	160 MT		
3.	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.	2000 MT		
4	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.			
	From Melavittan Railway Station to site stores - (Approximate distance 16 Km )	200 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
5	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			
	a. From Tuticorin – Approximate distance 15 km from site	300 MT		
6.	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.	5000 MT		

Sl. No	Description of work	Approx Weight to be handled	Unit Rate (Rs.) Per MT	Total Amount (Rs.)
7	<p>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.</p> <p>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 )</p> <p>Approximate tonnage for preservation</p>	7000 MT		
8	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		

**TOTAL CONTRACT VALUE Rs. ....**  
(In words Rs. ....)

SIGNATURE OF THE TENDERER

## **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.8 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. 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