



Ref.: NIT ref. SC&PV-PVSS/2015/NTPC-Kadri/01

Dated: 07/07/2015



BHARAT HEAVY ELECTRICALS LIMITED

(A GOVT. OF INDIA UNDERTAKING)

ELECTRONICS DIVISION

P.B. No.2606, MYSORE ROAD, BANGALORE-560 026.

Tender document for Establishment of site Office at Block P4
50MWp SPV plant project site at, NTPC-Kadiri,
Anantpur District, Andhra Pradesh.

Tender document submission due Date : 27/07/2015 by 13:00

Tender will be 2 part Bid Technical and price bid in 2 separate sealed envelopes enclosed in a third envelope clearly marked.

Tender opening Date (Technical): 27/07/2015 at 13:30 Hours

Price bid – will be intimated later

Tender to be address to

**AGM (SC&PV-PVSS)
BHEL EDN, Mysore Road
Post Bag No 2620
Bangalore-560026
Contact No:(080) 26998656
Mobile: 9591112769**



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SC&PV-PVSS DEPARTMENT

SITE OFFICE, 50MWp SPV PLANT NTPC,

N.P.KUNTA, KADRI, AP

Notice Inviting Tender for
Setting of site office establishment for Official Use at

BHEL EDN Site Office, P4 Block

50MWp SPV PLANT NTPC,

N.P.KUNTE, KADIRI, ANANTAPUR, AP

Handwritten signature



Sub : Tender enquiry for establishment of Site office at NTPC 50MW Solar Plant near Kadiri

Sealed bids are invited for hiring of Establishment of Site office at NTPC 50MW Solar Plant near Kadiri, for a period of one year, which may be extended based on the requirement and satisfactory performance of the vendor on the same terms and conditions as specified and agreed. The General Conditions of Contract form part of the Tender specifications. **All pages of the tender documents shall be duly signed, stamped and submitted along with the offer in token of complete acceptance thereof.** The information furnished shall be complete by itself. The tenderer is required to furnish all the details and other documents as required in the following pages

SUBMISSION OF TENDERS

The tenderers must submit their tenders as a TWO part bid to Officer inviting tender as per instructions in the NIT.

Tenders submitted by post shall be sent by " REGISTERED POST ACKNOWLEDGEMENT DUE / by COURIER" and shall be posted with due allowance for any postal/courier delays. BHEL takes no responsibility for delay, loss or non-receipt of tenders sent by post/courier. **The tenders received after the specified time of their submission are treated as 'Late Tenders' and shall not be considered under any circumstances.**

Tenders shall be opened by authorized Officer of BHEL at his office at the time and date as specified in the NIT, in the presence of such of those tenderers or their authorized representatives who may be present .

In case of omission in quoting any rate for one or more items, the evaluation shall be done considering the highest quoted rate obtained against the respective items by other tenderers for the subject tender.

Before submission of Offer, the tenderers are advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour, means of transport and access to Site, accommodation, etc. No claim will be entertained later on the grounds of lack of knowledge of any of these conditions.

1. Sealed Offers in the format attached should be reached BHEL EDN Bangalore
2. Offers will be opened at BHEL-EDN, Bangalore on receipt.
3. The offer shall be valid for 90 days from the date of opening of bid.
4. The rates quoted shall be FIRM. No escalation in rates will be allowed.
5. The rate quoted shall be exclusive of service tax, if service tax is applicable then bidder to clearly bring out the service tax component in the rate schedule separately.
6. The tender is likely to be finalized in a very short time.
7. The bidder is advised to visit the site to familiarize themselves with the site conditions.



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8. Payment for services will be on monthly basis based on certification of site I/C along with bills as applicable.
9. Advance payment / interim payment will **not** be made to the contractor .Enquiry comprising of following documents are issued herewith.
 - a) Section 1: General terms
 - b) Section 2 : Scope of work, terms and conditions
 - c) Section 3 : Bid Format

BHEL reserves the right to cancel or reject the offer either partly or in full without assigning any reasons thereof.

Thanking you,

Yours Faithfully,
For & On behalf of Bharat Heavy Electricals Ltd.,

SECTION 1 **GENERAL TERMS**

EVALUATION OF BIDS

Technical Bids submitted by the tenderer will be opened first and evaluated for fulfilling the Pre-Qualification criteria and other conditions in NIT/Tender documents, based on documentary evidences submitted along with the offer.

Tenderers whose bids are found techno commercially qualified shall be informed the date and time of opening of the Price Bids and such Tenderers may depute their representatives to witness the opening of the price bids. BHEL"s decision in this regard shall be final and binding.

Lowest bidder will be decided on overall cost.

SECURITY DEPOSIT

Upon acceptance of Tender, the successful Tenderer should deposit Rs 2.0L (Rupees two lakhs only) as Security Deposit.

The security Deposit should be furnished before start of the work by the contractor by Pay Order / Demand Draft in favour of BHEL

Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be deposited in as Pay Order / Demand Draft in favour of BHEL before start of the work and the balance 50% may be recovered from the running bills.

The Security Deposit shall not carry any interest.



RETURN OF SECURITY DEPOSIT

Security Deposit shall be refunded released to the Contractor along with the "Final Bill" after deducting all expenses / other amounts due to BHEL under the contract / other contracts entered into with them by BHEL

VALIDITY OF OFFER

The rates in the Tender shall be kept open for acceptance for a minimum period of 90 days from latest due date of offer submission (including extension, if any) . In case BHEL (Bharat Heavy Electricals Ltd) calls for negotiations, such negotiations shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

COMMENCEMENT OF WORK

The contractor shall commence the work within one week of issue of Letter of Intent from BHEL and shall proceed with the same with due expedition without delay.

If the contractor fails to start the work within stipulated time as intimated by BHEL, then BHEL at its sole discretion will have the right to cancel the contract. The Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.

All the work shall be carried out under the direction and to the satisfaction of BHEL.

Billing: Apart from BOS items other consumable/useable items shall be billed as actual and on submission of receipt certified by site representative on monthly basis.

Payment term : Payment will be made from Headquarters (Bangalore) within 30 days from the date of receipt of bills certified by BHEL's site representatives.

Payment can be released by EFT (Electronic Fund Transfer). Acceptance for this arrangement to be indicated by the contractor in his offer.

Income tax as applicable shall be deducted while releasing the payment. TDS certificate for the year will be issued in the next financial year. For this purpose contractor shall furnish photo copy of PAN card issued by Income Tax Department.

Sub Contract :The contractor shall not sublet any portion of the contract without written permission of BHEL's representative.

Arbitration : Except if otherwise provided for in the contract all questions and disputes relating to the specification, instructions, orders of the execution or failure to execute the same whether arising during the tenure of contract or on completion shall be referred to the sole arbitration of AGM/PVSS, BHEL-Electronics Division, Bangalore..



Validity: The offer submitted by the contractor shall remain valid for acceptance for a period of 90 days from the date set for opening of tender.

Scope of work and acceptance of terms and conditions: The contractor shall himself obtain all necessary information on local conditions and factors, which may influence or affect his offer. It must be understood and agreed that such factors have been investigated and considered while submitting the offer. Neither any change in the time schedule of the contract nor any financial adjustment arising thereof shall be permitted by BHEL-EDN, which are based on the lack of such clear information or its effect on the cost of the works to the contractor.

Submission of offer by the contractor implies that he has read all the tender conditions and has made himself aware of

- the scope of work
- Specification of the work to be done
- Local conditions
- Other factors bearing on the execution of work.

Firm price: The rate quoted shall be firm throughout the tenure of the contract and shall be inclusive of all applicable taxes as may be applicable and BHEL-EDN shall entertain no claim, whatsoever, on this account.

Validity and termination of the contract: The contract shall be valid initially for a period ONE YEAR from the date of award which can be extended further on same terms and conditions based on site requirement. The contract may be terminated by BHEL-EDN by giving a notice of 30 (THIRTY) days' notice and no compensation shall be paid for remaining period of the contract period.

SECTION 2

The contractor will be required to provide as per following Scope and terms & conditions:

Scope

Providing and maintaining site office set up items/materials as required by BHEL for setting up site office at proposed P4 block of NTPC SPV plant, NP Kunte near Kadiri Anantapur District of AP. The contractor will maintain these facilities till the contract period completion.

1. Contractor has to do supply, erection and commissioning of the site office setup as per the annexure requirement of BHEL.
2. The containers should be fabricated from tested quality steel duly welded, comprising of base frame, peripheral structure, self-draining roof, entry door and windows. The



four corner Column will be sufficiently strengthened to facilitate transportation, lifting and placing

3. **Base Frame** The base frame would be made of pressed mild steel channel section. The main structural element will be 122 x 62 SQ pipe 3mm thick and cross members should be of 'C' channels section size 75 mm x 40 mm.
4. The side and end frame made out of pressed sections of suitable profiles / Pillars of sufficient strength. Exterior wall made up of 18 SWG MS specially corrugated sheet, whereas 6mm thick decorative plywood wall cladding sheet to be used for interior walls. These steel sheets will be treated for corrosion resistant. Panels will be vertically corrugated. Sheets will be continuously welded to top side and base structure so as to offer better strength to weight ratio. All gaps to be sealed at edges and at seam, bottom etc to prevent ingress of moisture.
5. **Insulation** 50 mm thick Glass wool Insulation would be used for walls and 50 mm thick insulation material to be provided for roof and side walls.
6. **Inner Paneling** The interior will be aesthetically finished so as to give custom built appearance with extremely high quality workmanship. All vertically and horizontal corners should be neatly and smoothly finished. The Paneling of side walls and roof will be of 6mm thick decorative plywood.
7. **Flooring Systems** On the bottom frame 18 mm thick composite cement sheet/plywood will be fixed by means of self tapping screw. 1.3 mm thick homogeneous type PVC Vinyl flooring should be fixed on the cement sheet/plywood.
8. **Roof** Self draining type roof will be made out of 18 gauge thick M.S. Sheet, adequate roof bows are to be provided. Roof will be adequately cambered for draining of rainwater. Interior paneling would be done in 6mm thick decorative laminated plywood with adequate insulation.
9. **Main Entry Door** The size of the door will be of 6.5' height x 3' width. The door will be of external opening type made out of the same material as wall panels with door closing unit. The construction of the door would be double skin steel construction with 50 mm thick Glass wool insulation. The peripheral edges of the door will be sealed with double gaskets to make it waterproof & leak proof. The door interior will be finished with same material matching with that of the bunk house interior. The door will be provided with locking arrangement with separate handles on both sides of the door as required.
10. **Aluminum Windows**
Aluminum windows 2.5ft x 4ft, sliding type will be provided with safety grill and curtain made of Aluminum section, 4 mm plain vision glasses. All windows/doors will have external shades.
11. **Electrical System** the Bunk House will be provided with electrical wiring suitable for 250 volt, 50 HZ single phase AC power supply. All electrical wiring would be concealed. Bulk head and tube lights and ceiling fan will be provided. Suitable copper cables will be used for lighting circuits. The copper cables used will be of 1.5 sq mm. cables for lighting circuits. ISI mark and concealed in PVC conduits insulated copper wire will be used for wiring to be done in PVC conduit with small size distribution board with MCB protection and to separate with main supply.

Anshu



12. **Painting** NC Grey primer for Bunk House & Epoxy Paint for final 2 coats
13. **Type:** Lift and carry type
14. The furniture to be provided will be of good quality for the purpose and should last the contract duration. The layout will be finalized
15. The air conditioner will be 1.5 T capacity and should of 5 star BEE rating.
16. The cabling from DG set to the electrical load will be carried out by the contractor using appropriate cable size for the load .

TECHNICAL SPECIFICATIONS – SILENT DG SET

A. DIESEL ENGINE:

New Kirloskar/CUMMINS/ or any other reputed brands with silent version, cabling to the load to be included. , 3 cylinders, inline, 4 stroke cycle, Water cooled Natural aspirated, developing rated power at 1500 RPM under NTP conditions of BS: 5514. The engine shall be provided with electrical starting arrangement & shall give the rated electrical output at 0.8 power factor, 415V at the alternator terminal.

B. ALTERNATOR:

Single bearing alternator suitable for operation generating on required KVA rating at 1500 RPM, 415Volts , 0.8 power factor (lag) suitable for 50 Hz, 3 phase, 4 wire system, confirming to BS 5000/ IS 4722. The alternator is brushless type, screen protected, revolving field, self-excited, self-regulated through an AVR. The alternator should have the following features:

- $\pm 1.0\%$ voltage regulation (max.) in static conditions
- IP: 23 protections with insulation class H
- Permissible overload of 10% for one hour in 12 hours of operation.

C. CONTROL PANEL:

The Control Panel is manufactured with 14/16 gauge CRCA sheet and is powered coated for a weather-proof and long lasting finish. The Control Panel consists of the following parts:

- Instrument fuses duly wired and ferruled
- MCCB of suitable rating with overload and short circuit protections.

PVC Water storage tank and plumbing materials should of reputed company and good quality. Motor for pumping the water from a sump to be considered including construction of a sump of suitable capacity for long term storage.

Securities should be in uniform and with adequate facilities for night duty with torch, flash light etc. Suitable lighting arrangement for night lighting for the yard and near the site office area may be considered in the overall quote .

Anshu



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Contractor can provide in the pantry suitable arrangement for preparation of light refreshment /snacks/tea etc in lieu of hotplate or any electrically operated equipment.

Split AC should be of 1.5 Ton 4/5 Star BEE rating and of reputed company, It will be fitted in two container as per the instruction of BHEL site reprehensive.

All other electrical items fans, lights etc. should be of reputed ISI Marked manufacturers.

FORMAT FOR PRICE BID

Sl No	Description	Unit	Qty	Rate	Amount for 12 months	Remarks
A.i	Container office of 20x10ft - 3 Nos	Months	12			To be dismantled after contract completion
A.ii	Chemical toilet WITH Septic tank					
A.iii	Sintex tank - 2000liters, including plumbing, motor etc					
A.iv	Split A/C 1.5 Tons - 2 nos					
A.v	Water for general purpose to be stored in Sintex tank - @50000liters per month	Per tanker of 2000 Ltrs	300			Supply in tanker will be part of monthly billing be as per consumption.
B.i	DG set (New Kirloskar/cummins and other reputed brands, Silent version). Cabling to the load to be included. - 12.5 KV-1 No & 5 KV - 2 Nos	Months	12			The responsibility of providing un-interrupted power is with the contractor, To ensure full time mechanic is available for maintenance. To be dismantled after contract completion
B.iv	Diesel - @12 hours operation per day including transportation of Diesel for the load of 8KW per hour. Payment will be on market rate. Estimated at @1000Liters per month approximately.	Ltrs	12000		Not to quote	Diesel will be arranged as per Site requirement by the contractor. Diesel bill will be part of monthly billing.
C.i	Fans, Lights, Plug points (Indicate numbers)	Lot	1			
C.ii	Engineers table and chairs - (Indicate Make)	Set	15			Bidder to indicate the numbers for items wherever "set" or "LOT" indicated.
C.iii	Site I/C table and visitor chairs - (Indicate make)	Set	1			The layout inside the Container for furniture will be decided after award of work.
C.iv	Latest version of Desktop Computer with Internet connection, Printer and scanner including maintenance, stationary	Set	1			
C.v	Pantry, crockery set, Hot plate or equivalent to serve 15 people	Set	1			
C.vi	Packaged drinking water in 20L bottles, 100L per day minimum - will be Local arrangement	Ltrs	36000		Not to quote	
D.i	Office boy -1	Man Months	12			For upkeep of office.
D.ii	Security - 24x7, 2 shifts, 3 per shift of 12 hours initially. Numbers may increase based on BHEL requirement. 6 per day for initial 2 months. 18 per day for 10 months.	Man Months	190			To be uniformed and with adequate facilities for night duty with torch, flash light etc
D.iii	Unloading of Materials, stacking as per site I/C instructions by Hydra- 10-15 T. Diesel for Hydra and labour inclusive.	Lumpsum per month	12			Items will be unloaded from truck and stacked in open yard.
E	Temporary fencing 2 meters above ground for an area of 50000SFT with locally available wooden poles and barbed wire with a gate of 5 meter width. To be dismantled after 1 year.	Lumpsum	1			One time cost to be indicated.
			TOTAL			

M. Selvaraj