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TENDER NO. BHEL/PSNR/SCP/MSDB/ E-1581

TENDER SPECIFICATIONS

FOR

SUPPLY OF TWO NUMBER HEAVY LIFT CRAWLER MOUNTED LATTICE BOOM HYDRAULIC CRANES FOR ERECTION OF 500 MW BOILERS

PART I – TECHNICAL BID



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



ISO 9001-2000, ISO 14001 and OHSAS 18001 certified company SubContract and Purchase Deptt. Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
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TENDER NO. BHEL/PSNR/SCP/VKS/ E-1581

IMPORTANT NOTE

THIS TENDER SPECIFICATION ISSUED TO:

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

M/S	

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Purchase Deptt.

Bharat Heavy Electricals Limited (A Govt. of India Undertaking)

Power Sector – Northern Region,
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TENDER NOTICE

BHEL Power Sector, Northern Region invites bids for the following item required at BHEL Sites in India:-

Enquiry No.	Item Description	Last Date of Tender Submission & Opening
BHEL/PSNR/SCP/ VKS/ E-1581	Supply of Heavy Lift Crawler Mounted Lattice Boom Hydraulic Cranes as per detailed specifications enclosed with tender enquiry.	31.10.2008 3.30 PM (IST)
	Quantity Required - Two Nos.	

Notes:

- 1. For detailed tender enquiry, please visit BHEL web site www.bhel.com
- 2. Tenders to be accompanied with full Earnest Money Deposit (EMD) of Rs. 2,00,000/-(Rupees Two Lacs only) from Indian bidders '**OR**' US dollar 5000 (US Dollar Five Thousand only) from foreign bidders. Tenders not accompanied with full EMD will not be considered.
- 3. Purchase Preference will be given to Indian CPSUs as per Guidelines of Govt. of India.

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

Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Sector – Northern Region,
Plot No. 25, Sector - 16A, Distt. Gautam Budh Nagar,
NOIDA – 2 01301 (INDIA)

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NOTICE INVITING TENDER

BHEL Power Sector, Northern Region invites bids for the following item required at BHEL Sites in India:-

Enquiry No.	Item Description	Last Date of Tender Submission & Opening
BHEL/PSNR/SCP/ VKS/ E-1581	Supply of Heavy Lift Crawler Mounted Lattice Boom Hydraulic Cranes suitable for erection of	31.10.2008
	upto 500 MW Boiler Sets as per detail specifications and terms & conditions enclosed with tender enquiry.	3.30 PM (IST)
	Quantity Required- Two Nos.	

QUALIFYING REQUIREMENTS / PAST EXPERIENCE OF BIDDERS:-

- (i) BIDDER SHOULD HAVE BEEN MANUFACTURING AND SUPPLYING CRAWLER CRANE OF 300 MT CAPACITY 'OR' HIGHER CAPACITY FOR AT LEAST LAST THREE YEARS.
- (ii) BIDDER SHOULD HAVE SUPPLIED MINIMUM TWO UNITS OF QUOTED 'OR' HIGHER CAPACITY CRAWLER CRANES AND SHOULD BE IN OPERATION ANYWHERE IN THE WORLD.
- (iii) THE OFFERED CRANE MODEL SHOULD MEET SPECIFICATIONS OF THIS TENDER AND SHOULD BE FROM CURRENT MANUFACTURING RANGE.

NOTES:

- The bidder shall either be Manufacturer of the offered crane or their authorized Indian agent. In
 case the bidder is an authorized dealer, they shall submit authorization of the manufacturer
 along with the technical bid. <u>Dealer-Manufacturer linkage shall be submitted along with the
 technical bids in case offer is submitted by the dealer/agent in the absence of such linkage
 bidder's offer is liable to be rejected.
 </u>
- 2. The bidders shall enclose details/documents in support of 'QRs' given above in their technical bid (Part-I). For each qualifying requirement given above ,the bidder shall submit the documents specifically in line with the Qualifying Requirements, such as copies of relevant Purchase Orders , contact details of clients, Certificates related to supply and operation of cranes etc as applicable along with the technical bid.
- 3. The Tender Documents comprise of following;

- (1) Technical specifications.
- (2) Special Terms & Conditions.
- (3) General Terms & Conditions.
- (4) Rate Schedule (Price Bid)
- 3. Tender Documents with complete details are hosted in this web page. Bidder(s) intending to participate may download the tender document from **the web site (www.bhel.com)**.
- 4. Bidder(s) can also collect hard copy of tender documents from this office. Tender documents (non transferable) will be issued free of cost on all working days between 09.30 Hrs. to 12.30 Hrs within the period i.e upto 30.10.2008. Request for issue of tender document should clearly indicate Tender No. and item.
- 5. Tenders must be submitted to the undersigned latest by **31.10.2008** before opening of technical bids commences. Technical bids shall be opened at 15.30 Hrs. on **31.10.2008**.
- **6. Earnest Money Deposit (EMD)**: Refundable, Non-interest bearing **EMD of** Rs. 2,00,000/- (Rupees Two Lacs only) from Indian bidders or US dollar 5000/- (US Dollar Five Thousand only) from foreign bidders shall be deposited by Account Payee Pay Order 'OR' Demand Draft in favour of "Bharat Heavy Electricals Limited" payable at Delhi/NOIDA.
- 7. Tenders not accompanied with Full Earnest Money Deposit, as indicated above, are liable to be tejected.
- 8. The port of delivery for these cranes shall be Kolkata/Haldia or Mumbai in India.
- 9. All corrigenda, addenda, amendments and clarifications to this Tender will be hosted in this web page and not in the newspaper. Bidders shall keep themselves updated with all such amendments.
- **10.** BHEL reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
- 11. BHEL reserves the right to go for a Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation. As such, the bidders should submit their best prices in the 'Sealed Price Bid'. However, bidders are required to confirm their acceptance of "General terms and conditions" governing RA specifically in their technical bid. The "General terms and conditions" governing RA are given in the Annexure-I of the Tender Enquiry. Bidders are also required to furnish following details in their techno-commercial bid, for this purpose (RA).

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

- a. Name and Designation of official
- b. Postal Address (Complete)
- c. Telephone Nos. (Land line & Mobile both)
- d. FAX No.
- e. E-mail address
- f. Name of Place/State/Country, wherefrom he will participate in the RA.
- 12. Bids, once submitted, shall not be returned.
- 13. Purchase Preference will be given to Indian CPSUs as per Guide lines of Govt. of India.

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Sealed tenders in Duplicate in two part bid system i.e. Part-I – Techno-Commercial bid alongwith EMD and Part-II - Price bid are invited for supply, supervision of installation and commissioning of TWO NUMBERS HEAVY LIFT CRAWLER MOUNTED LATTICE BOOM HYDRAULIC CRANES as per detailed specifications so as to reach us before the date of opening. The tenders (Part I only) will be opened at 3.30 PM (IST) on 31.10.2008.

The tenderers are advised to submit the bid in conformity with the following:-

- 1. Offer should be submitted in two part bid system as under;
- 1.1 (Part I) --Techno-Commercial bid alongwith EMD. It should include the following:
 - i) 'EMD' by Demand Draft in favour of M/s Bharat Heavy Electricals Limited, Delhi/Noida failing which the offer is liable to be rejected.
 - ii) Technical specifications of the offered cranes as per Annexure-II along with necessary catalogues, drawings, load charts and technical literatures for engine, torque convertor, load moment device, pumps and motors of the offered crane.
 - iii) List of essential spares as required against SL NO. 19 of Technical Specifications (Annexure-II) of this enquiry. It may be noted that list of essential spares should be as per SL NO. 19 of Technical Specifications only.
 - iv) The bidders shall enclose details/documents in support of 'QRs' given above in their technical bid (Part-I). For each qualifying requirement given above ,the bidder shall submit the documents specifically in line with the Qualifying Requirements, as given above in the NIT.
 - v) Authorization from the manufacturer of offered crane in favour of the dealer, in case the bidder is a authorized Indian dealer.
 - vi) Order shall be placed on the original manufacturer only.
 - vii) Details of safety devices / controls to be provided in the crane as standard and as optional.
 - viii) DETAILS OF SHIPPING.
 - ix) Rate Schedule (Un-Priced)—with a confirmation that all the items of the Rate Schedule of this NIT have been quoted.
 - x) Details of service facilities available in India for 'After Sales Service'.
 - xi) Acceptance to commercial terms and conditions.
 - xii) 'Deviation Statement' from tender conditions of this NIT.

1.2 Part II (Price bid) :-

- i) As per Rate Schedule format enclosed (Annexure-IV)
- The bidders should fully understand scope of supply and their responsibilities under the tender specifications before quoting. The bidders are required to quote the rates as per rate schedule only, in part-II price bid. Conditional price bid or price bid with any deviation are liable to be rejected. No cutting / erasing /overwriting shall be done in the price bid, or correction if any shall be duly authenticated by the signatory.
- 2. Following should be super scribed on the envelopes of the two parts of the Bid.

Part I: Techno-Commercial Bid along with EMD:-

Tender	for	:

Tender No.: Due on:

Part II (Price bid)

Tender for: Tender No.:

Both Part I and Part II should be individually sealed and superscribed as indicated above and shall be enclosed in one main envelope duly sealed and superscribed as:

Tender for:

Tender No.: Due on:

Containing Part I and Part II of the offer.

- The tenders should be sent sufficiently in advance so as to reach before the due date and time. **BHEL shall not be responsible in case of delay in receipt of tenders.**
- 5 Inspection and Supervision of Installation & Commissioning & Training: -

The supplier shall offer the cranes for inspection and for load test at manufacturer's works as per international norms and as per mutually accepted quality plan, according to the load charts supplied along with the offer. The tests shall be carried out in presence of BHEL engineers or its nominated representative.

Installation and commissioning of cranes at site will be under supervision of competent engineer from the manufacturer. The Load test and Acceptance Test shall be carried out on assembly / commissioning of cranes at site in presence of engineers from manufacturer and equipments will be taken over on successful completion of such tests. At each site, load test shall be carried out with available load.

Training:- For each crane, necessary training for operation & maintenance shall be given to two BHEL personnel free of charge for 2 weeks at manufacturers works and again at site for another 2 weeks during commissioning.

The delivery required shall be within 10 months from date of receipt of P.O. However, tenderers should indicate the best possible delivery period.

- 7 Offers should be valid for a period of 90 days from the date of Techno-Commercial bid (Part-I) opening.
- 8 Service support of the equipment under purchase is of utmost concern. Tenderers shall elaborate on the service network and spare parts availability which are to be ensured to maintain the equipment after initial commissioning and completion of warranty period. In case service/spare parts facilities are not available in India, tenderers shall indicate the maximum possible time in making the such services available from places outside India.
- 9 The equipment being offered, should be of robust design and suitable for operations in Indian climatic conditions such as saline atmosphere, ambient temperature up to 50° C. The electrical and controls should be tropicalised to withstand such climatic conditions.

10 In case the equipment is offered from outside India, the tenderers shall also submit following information alongwith techno-commercial bid (Part-I):-

- Gross / Net weight of Equipment along with accessories in Kgs. a)
- b) Volume of cargo in packed condition in Cubic Meter.
- Number of packages and their individual weight/volume in MKS system, alongwith c) tentative shipping list.
- Name of the nearest load port and its distance from works. d)
- Approx. voyage time from load port to the port in India. e)
- Ocean freight from load port to the port in India . To be furnished in Rate Schedule f) format - Annexure- IV
- 'Name of Original Foreign Supplier with their complete address' on whom g) Order is proposed to be placed /issued.
- In case of payment through Letter of Credit, names of Beneficiary and Banker with h) account details.

Notes: (i) Letter of Credit (L/C) can be opened only in the name of the original foreign supplier and it should be same on whom Purchase order is to be issued. L/C shall be established by BHEL about 60 days prior to shipment of each crane FOR THE 100% order value however payment shall be released as per clause 'Payment Terms of the NIT). The supplier shall intimate dispatch plan well in advance. Indian suppliers shall not be paid through L/C.

For evaluation of bids, since the bids are expected to be in different currencies, the exchange rate shall be considered as 'T.T. selling rate' of State Bank Of India on the date of Technical Bid opening. In case of Holiday, rates for previous day shall be considered.

All LC processing charges, except opening charges with our Bankers, shall be borne by the beneficiary i.e. the supplier. Charges for any amendment attributable to the beneficiery/applicant will be on account of beneficiary/applicant.

- Normally no deviation to the tender conditions are accepted. In case of any deviations taken by bidders and not withdrawn subsequently, BHEL reserves the right to either reject the offer or load the offer appropriately for evaluation purpose, based on nature of deviation. The loading criterion in such cases will be communicated to the bidders which will be final and binding.
- 11 Payment Terms: The supplier shall adhere to the following payment terms for each crane :-
 - 80% of Ex-works/FOB value of crane and spares against dispatch documents. a.

The set of despatch documents for 80% payment shall be as follows

Three Original of tax Invoices (Invoice). The invoice to clearly indicate detail of spares (As per point no. 19 of Tech Specs) and lubricants/consumables (Required for commissioning of crane) despatched along with each crane.

- Full set of Clean on Board Bill of Lading- In-Original (In case of foreign supplier)
- One original and one copy of Packing List
- Certificate of Country Of Origin issued by appropriate authorities (In case of foreign supplier)
- Load Test Certificate of the Crane at Manufacturer Works, duly certified by BHEL or its Authorised Agency or its waival.
- Warranty Certificate for the goods
- Certificate confirming that three sets of Catalogue of crane model supplied, operating & maintenance manuals of crane supplied, shop manual for bought out items & boom repair manual as per SL NO. 28 of Technical Specifications have been dispatched to BHEL, with proof of dispatch.
- Certificate confirming "goods supplied are new".
- b. 100% Taxes/Duties as applicable against dispatch documents.
- c. 10% of Ex-works/FOB value of crane and spares on installation, testing and commissioning of crane at site.
- d. Balance 10% of ex-works/FOB value of crane and spares along with Supervision charges for assembly, testing and commissioning of crane at BHEL site within 30 days of commissioning / acceptance test at site against performance bond / Bank Guarantee of 10% of order value.
- e. 100% Ocean freight and Insurance charges, as applicable, on receipt at port and custom clearance of the total consignment (crane and spares) in case of foreign supplier.

NOTES:-

Tenderers are required to specifically confirm acceptance of these payment terms in their techno-commercial offer (Part-I Bid).

12 Warranty :-

The crane offered shall carry a warranty for a period of 12 months from the date of installation at site or 2000 hrs. of operation, whichever occurs earlier. Rectification / replacement required during the warranty period will be arranged by the supplier free of cost including to and fro transport charges and import duty/excise duty/other taxes/insurance etc payable on replacement items.

- For each of the crane, the supplier shall provide three free service visits of their service engineer from Indian Service Centers independent of manufacturer service engineer's visit, during the warranty period. Each visit shall be of at least two days duration at site. In addition to above, for each of the crane the supplier shall also provide three free visits of Manufacturer's service engineer during the warranty period. These free visits shall be in addition to deployment of service engineers by the supplier to attend to break downs, if any, during the warranty period.
- 14. All lubricants / consumables (except fuel) required for successful commissioning of the crane shall be supplied along with the crane without any extra cost.
- 15. No separate Indian agents commission will be payable. The bidder to confirm this specifically in their techno-commercial bid.
- 16. On acceptance of techno-commercial and price bids, BHEL reserves the right to conclude the contract / order either on EX-WORKS (For Indian Suppliers), FOB 'OR' on C&F / CIF (For Foreign Suppliers) basis at its sole discretion.

17. In case of any contradiction between General Terms & Conditions and Special Terms & Conditions, the latter shall prevail.

18. <u>Unsolicited rebate/discount shall not be accepted after bid opening.</u>

- 19. All sheets of the offer should be duly signed and stamped by the tenderers and should be submitted along with the Part-I bid.
- 20. **Delivery Instructions:** Each Crane complete with its spares shall be dispatched as **one lot only in break bulk cargo** and no part consignment shall be acceptable. The supplier to ensure following essential requirements while arranging shipment;
 - (a) Ship must not be beyond 25 years of age.
 - (b) Ship must be accredited by Transchart or Llyods.
 - (c) Ship must not be flagged by Lagos, Panama, Singapore and Hongkong.

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GENERAL TERMS & CONDITIONS

- 1. Manufacturer's name, their trade mark and brand, if any should invariably be mentioned in the tender and illustrative leaflets in duplicate giving technical particulars etc. should be attached to the tender, to facilitate consideration of the offer.
- 2. Materials should be of best quality and correct to specifications, relevant DIN/ISO/ANSI standard or any other equivalent INTERNATIONAL standard specification.
- 3. Correct date of affecting supplies in the event of an order from this office should be recorded in the tender.
- 4. Please note that our terms of payment are as per clause 11 of "SPECIAL TERMS AND CONDITIONS" (enclosed).
 - In case of payment through LC, all LC processing charges, except opening charges with our Bankers, shall be borne by the beneficiary i.e. the supplier.
- 5. Bharat Heavy Electricals Limited does not bind itself to accept the lowest tender, but reserves to itself the right to accept or reject all or part of any tender at its discretion.
- 6. No enhancement of rate, whatsoever the cause, will be allowed once the offer is accepted and the order is placed. Withdrawal of the offer after it is accepted or failure to make the supply within the schedule period will entail cancellation of purchase order and forfeiture of earnest money (EMD) and or purchase at the risk and cost of supplier.
- 7. The supplier shall communicate 'Acceptance of the Purchase Order' within 15 days from the date of issue.
- 8. Security Deposit (S.D): For each crane, the successful bidder shall furnish a Security Deposit (SD) in the form of Bank Guarantee for an amount equivalent to 10% of FOB/Ex Works value of each crane for the satisfactory execution of the Purchase Order(PO) in accordance with the terms and conditions and delivery specified in the PO. The BG shall remain valid till completion of delivery period plus two months. The BG shall be submitted as per the format given in this tender enquiry (Annexure-III). The supplier shall extend the validity of the BG in case of delay in delivery. The bank guarantee (BG) shall be submitted from a Bank as per the list enclosed 'OR' from any other scheduled Bank in India. However, discretion of its acceptance shall lie solely with BHEL. The supplier shall submit the S.D, three months prior to shipment of the respective crane.. The above SD shall be returned after receipt of 'Performance Bank Guarantee' as mentioned against SL NO. 12 below. The EMD of successful bidder (supplier) shall be returned on receipt of S.D by BHEL.
- 9. Where Sales Tax/VAT is payable extra, it will only be paid if registration numbers both under local sales tax/VAT and Central Sales Tax are specifically mentioned on the invoice. Tenderers should invariably quote their sales tax/VAT Registration No. in the offer.
- 10. Liquidated Damages: It is clearly understood between the parties to the contract that the delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplies or dispatches the goods beyond the delivery period specified, the purchaser will have no obligation to accept the goods. If accepted, liquidated damages at the rate of ½% (half percent) of the value of goods in arrears per week subject to a maximum of 5 % (five percent) of order value, will be levied at the discretion of the purchaser, without prejudice to any other relief or compensation due to the purchaser under any other condition to the contract.

- 11. Inspection: All goods and work are subject to our inspection either at your works or after delivery as may be agreed. The decision of BHEL shall be final. Rejected goods will be returned to the supplier at his cost including freight on original shipment. The tenderers shall also offer load test/over load test of the crane at manufacturers works in presence of engineers from BHEL. Load test shall also be carried out with available load at site as per load chart of the crane.
- 12. Performance Bank Guarantee: Each crane will be guaranteed by the tenderer against any manufacturing defect, bad workmanship, bad material used etc., for a period of 12 months from the date of commissioning at site or 2000 hrs of operation whichever is earlier. Any material found defective or fails within the guarantee period due to any of the above reasons within this period will have to be replaced by the supplier free of cost, and any other charges including to and fro transportation charges etc. will also be borne by him. A Bank Guarantee from bank (separate BG for each crane) as per enclosed list of banks or any other scheduled bank in India, and equal to 10% of the FOB / EX WORKS value and valid upto 12 months from the date of Installation and commissioning of each crane at site for the satisfactory performance of the crane shall be furnished at the time of claiming final 10% payment. Discretion of acceptance of BG from any other scheduled bank in India, shall lie solely with BHEL.
- 13. <u>Insurance</u>: Wherever specifically agreed to, the supplier will insure at his cost the goods for all transit risks including 90 days storage risk from the date of delivery of the goods at the final destination.

In all other cases, supplier must furnish particulars of despatch i.e. station of despatch and destination, name of the goods, number of cases and their weights, value of the goods including all taxes, duties, levies and freight etc. for each consignment immediately after the despatch of goods. Failure to do this will make the supplier responsible for making good any loss which might have otherwise been recovered from insurers.

Note: However, the supplier shall still remain responsible for defective parts or short supply and defective packing.

- 14. <u>Metric System</u>:- Suppliers are requested to give metric measurements while quoting.
- 15. <u>Arbitration</u>: All disputes between the parties to the contract arising out of or in relation to the contract, other than those for which the decision of the Engineer or any other person is by the contract expressed to be final and conclusive, shall after written notice by either party to the contract to the other party, be referred to sole arbitration of the General Manager or his nominee. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Reconciliation Act, 1996/the Rules of Conciliation and Arbitration of the International Chamber of Commerce, Paris. The place of Arbitration shall be New Delhi(India).
- 16. Any suites in respect of this contract shall have the jurisdiction of the courts of New Delhi (India) only.

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ANNEXURE-I

GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION (RA)

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

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

Annexure II

SI. No.	TECHNICAL SPECIFICATIONS/PARTICULARS OF HEAVY LIFT CRAWLER CRANE REQUIRED FOR ERECTION OF UP TO 500MW BOILERS	DETAILS TO BE FURNISHED BY THE BIDDER
1	Description Crawler Mounted Lattice Boom Hydraulic Crane.Make &	
	Model to be clearly specified in respect of the offered crane.	
3	Standard As per DIN/ANSI/BIS/ISO Standard.	
4	Stability rating—75% Critical Loads to be handled by offered crane (360° slew)—	
	 (a) Minimum 130 MT (Excluding Weight of hook block and lifting slings) below hook at minimum 14 M radius with minimum clear height of 97 M under hook. This requirement can be met with main boom or with suitable boom & jib combination. The hook block with a ceiling girder flange width of 1.5 M must not foul with the boom at girder elevation (top of girder) of 92 M. At this elevation, a minimum clearance of 0.30 M must exist between the boom and the girder flange. A lifting drawing showing clearances between the boom and the girder flange shall be submitted by the bidders with the technical offer. (b) Minimum 10 MT (Excluding Weight of hook block and lifting slings) below hook at minimum 30 m radius with minimum clear height of 120 m under hook with suitable boom and jib combination. NOTE:- Above capacities should be met either with the basic crane 'OR' with combination of basic crane along with suitable capacity 	
5	enhancer. Boom hoisting, slewing, main/aux. hoisting ,travel drives etc - ALL should be Hydraulic drives.	
6	<u>Central Ballast</u> Supply of Base Frame for full ballast to meet offered load chart.	
7	Engine Turbo charged water/ coolant-cooled diesel engine of adequate power, preferably CUMMINS/CATERPILLAR make. Specify Make & Model no.,BHP,RPM,Max Torque,Fuel Consumption Etc.,	
8	<u>Winches</u> All winches (main hoist, jib hoist and boom/derrick hoist etc) to be operated by hydraulic motors, drum with integrated planetary and spring applied hydraulically released disc brake.	
9	Crane Cabin Spacious, all steel construction cabin, swiveling sidewise with operating and control/monitoring instruments.	
10	Crane operation Multiple movements simultaneously.	
11	Safety devices— The crane shall be equipped with all the following safety devices: a) Cut off devices when exceeding the permissible load moments. Electronic control to stop all dangerous operation in case of instability. Safe load indicator with visual display in operator's cabin for load chart, maximum allowed load, gross load, net load on hook, operating radius & angle, boom / jib length, boom / jib sheave height etc. and fault display. b) Safety valve against pipe and hose rupture. c) Hoist & boom hoist limit switch. d) Drum limit switch at last three turns of wire rope for each drum. e) Display arrangement for self error detection system. f) Anemometer. g) Self Test system. h) Electronic inclinometer.	
12	Electrical system24 V DC	

13	Aviation Light-24 V double flash light mounted on lattice boom or jib head with battery charger 220 V / 24 V.	
14	<u>Hook block</u> Suitable hook blocks of approximately 400 MT, 250 MT, 100MT capacities and a ball hook block to be provided.	
15	Tool Box – Each crane shall contain (a) 2 Nos. track adjusting hydraulic jacks and (b) 4 Nos. Boom handling slings besides Hydraulic Test Kit and Standard Tool Kit.	
16	Observation Camera—2 nos. to be installed at superstructure in winch area with a single common monitoring unit in crane cabin for observation of winches.	
17	Self Erection System: The crane should consist of self erection system	
18	Over all crawler end to end outer width of the crane Not above 11 m.	
19	Spare Parts: Essential spares to be supplied for each crane are (a) 2 Nos. Lattices of 6M length of each size of lattices pipes used in the boom sections and (b) 6 sets of Engine Filters and Hydraulic Filters. List of spares to be supplied in line with above shall be submitted along with technical bid (Part-I) by the bidders.	
20	 Experience - Bidder shall meet all the following requirements: (j) BIDDER SHOULD HAVE BEEN MANUFACTURING AND SUPPLYING CRAWLER CRANE OF 300 MT CAPACITY 'OR' HIGHER CAPACITY FOR AT LEAST LAST THREE YEARS. (ii) BIDDER SHOULD HAVE SUPPLIED MINIMUM TWO UNITS OF QUOTED 'OR' HIGHER CAPACITY CRAWLER CRANES AND SHOULD BE IN OPERATION ANYWHERE IN THE WORLD. (iii) THE OFFERED CRANE MODEL SHOULD MEET SPECIFICATIONS OF THIS TENDER AND SHOULD BE FROM CURRENT MANUFACTURING RANGE. (iv) OFFERS CAN BE SUBMITTED DIRECTLY BY THE MANUFACTURER OR THROUGH THEIR AUTHORIZED INDIAN AGENT. 	
21	Commissioning: Supervision of assembly, testing and commissioning of cranes shall be provided at BHEL sites by the vendor by deploying suitable supervisory personnel to respective BHEL sites without any additional charges	
22	After Sales Service Facility: The manufacturer or his authorized service provider shall have suitable infrastructure in India to adequately take care of after sales servicing/repairs of the crane. For each of the crane, 3 periodic service visits each of 2 days duration shall be provided by the Service Engineer of the Indian Dealer (independent of manufacturer's service engineer's visit). & 3 visits shall be provided by the manufacturer service engineer during warranty period.	
23	Inspection Crane shall be inspected and load tested at manufacturers' works and at BHEL site as per international norms and mutually accepted quality plan, according to the load charts supplied along with the offer. At sites, load test shall be carried out with available loads.	

24	Training For each crane, necessary training for operation & maintenance shall be given to two BHEL personnel free of charge for 2 weeks at manufacturers works and again at site for another 2 weeks during commissioning.	
25	Prawing / Documentation For each of the crane, following documents shall be submitted by the supplier during the time of delivery of the equipment and one set of each shall be part of dispatch documents. (a) 3 sets Operating and Maintenance manuals along with equipment part list at the time of delivery of the cranes. (b) 3 sets of shop manual for bought out items (c) 3 sets of boom repair manual	

ANNEXURE-III

(To be stamped in accordance with Stamp Act)

BANK GUARANTEE TOWARDS CONTRACT PERFORMANCE

Bank Guarantee No: Dated:

To

M/s Bharat Heavy Electricals Limited, BHEL ,PSNR, NOIDA

Whereas in accordance with the terms of the said contract, the Sub- contractor having agreed to
provide a contract performance guarantee for its faithfully performance of the entire contract equivalent to % (percent) of the total contract price i.e. upto (Rs(Rupees
By this guarantee, we, the undersigned,

This guarantee shall remain in full force upto and including the ----day of200 (....days after the date of successful completion of defects liability period) and shall be extended from time to time

for such period as may be desired by the main contractor.

The Bank also agrees that the Main contractor at its option shall be entitled to enforce this guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the sub contractor notwithstanding any security or other guarantee that the Main Contractor may have in relation to the sub contractor's liabilities.

The Bank further agrees that the guarantee herein contained shall remain in full force during the period that is taken for the performance of the contract land it shall continue to be enforceable until all the dues of the Main contractor under or by the virtue of this contract have been fully paid and its claim satisfied or discharged or until the Main contractor discharges the guarantee in writing.

We further agree between us and the main contractor for the purpose of this guarantee any notice given to us by the Main contractor and any amount claimed in such notice by the Main contractor and any amount claimed in such notice by the Main contractor shall be conclusive and binding on us notwithstanding any differences between the Main contractor and Sub Contractor or dispute pending before any court Tribunal, Arbitrators or any other authority. We further agree that this guarantee shall not be affected by any change in our Constitution or that of the Sub Contractor. We also undertake not to revoke this guarantee during the currency. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolutions or insolvency of the Sub Contractor and shall remain valid, binding and operative against the Bank.

The Main contractor shall have the fullest liberty without affecting his guarantee to postpone from time to time the exercise of power vested in them or any right which they might have against the Sub Contractor and to exercise the same at any time in any manner and either to enforce or to fore bear to enforce any convenants contained or implied in the contract between the Main Contractor and the Sub Contractor or any other course or remedy or security available to the Main Contractor. The Bank shall not be released from its obligations under these presents by any exercise by the Main contractor of its liberty with reference to matters aforesaid or any of them or by reasons of any other act of forbearance or other acts of omission and commission on the part of the Main Contractor or any other indulgence shown by the Main contractor or by any other matter or thing whatsoever, which under law would, but for these provision, have the effect of relieving the Bank.

Notwithstanding anything containing herein above our liabilit	y under this guarantee is limited to%
(percent) of the total contract price i.e	
upto Rs(Rupees	only)

This guarantee shall remain in full force upto and including theday or...........200 (...days after the date of successful completion of defects liability period), unless extended further, from time to time for such period as may be desired by the main contractor and it shall remain in full force upto and includingdays after the extended date. Any claim under this guarantee must be received by us before the expiry of its period of validity including extended validity date, if any, and if no such claim has been received by us within the said validity period, the Main Contractor's rights under the guarantee will cease. However, if such a claim has been received by us within & upto the validity date/extended validity date all the Main contractor's rights under the guarantee shall be valid and shall not cease until we have settled the claim.

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

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

Signed for and on behalf of the Bank (with the seal of the bank)

WITNESSES:

- 1. (Name and Address)
- 2. (Name and Address)

LIST OF MEMBER BANKS

- State Bank of India CAG Branch, 10th Floor, Vijaya Building, Barakhamba Road, New Delhi – 110001.
- Canara Bank
 Janpath,
 New Delhi 110001.
- Punjab National Bank,
 74, Janpath,
 New Delhi 110001.
- Bank of Baroda, Corporate Banking Branch, 11th Floor, BOB Building, Sansad Marg, New Delhi – 110001.
- State Bank of Hyderabad,
 Surya Kiran Building, K.G. Marg,
 New Delhi 110001.
- State Bank of Travancore, Travancore House, IF Branch, K.G. Marg, New Delhi – 110001.
- Deutsche Bank,
 Tolstoy Marg,
 New Delhi 110001.

- HDFC Bank Ltd.,
 5th Floor, HT House,
 K.G. Marg,
 New Delhi 110001.
- Oiti Bank N A
 Jeevan Vihar Building,
 Sansad Marg,
 New Delhi 110001.
- 10. Standard Chartered Bank,H2 Block, Connaught Place,New Delhi 110001.
- ICICI Bank Ltd.,
 ICICI Tower,
 Bisham Pitamah Marg,
 Pragati Vihar,
 New Delhi 110003.
- IDBI Bank Ltd.,
 K.G. Marg,
 Surya Kiran Building,
 New Delhi.
- 13. ABN AMRO BANK N.V
- 14. The Hongkong &Shanghai Banking Corporation Ltd
- 15. Syndicate Bank
- 16. Corporation Bank

ANNEXURE-IV

RATE SCHEDULE

SI.No.	DESCRIPTION	PRICE
1. 1.1	TOTAL Ex-Works / F.O.B PRICE INCLUDING PACKING & FORWARDING, FOR SUPPLY OF 2 (TWO) NUMBERS OF HEAVY LIFT CRAWLER CRANE SUITABLE FOR ERECTION OF upto 500 MW BOILERS, AS PER DETAILED SPECIFICATIONS ENCLOSED WITH TENDER ENQUIRY (TECHNICAL SPECIFICATIONS AS PER ANNEXURE-II OF TENDER DOCUMENT).	
1.2	Total price of essential spare parts for both cranes [Each crane shall have (I) 6 sets of filters for engine(air, oil, fuel and water) and hydraulic tank and hydraulic system & (II) 2 nos. Boom lattices of 6 Mtr length for each size of lattices pipes used in boom section of the offered crane]	
	 NOTES FOR ITEM NO. 1.2: The bidders shall enclose the list of spares as required above along with their technical bid (Unpriced) The list of spares shall also be enclosed along with price bid (Part-II), indicating price of each and every item covered in the list. 	
2.	Shipping (ocean) freight upto the port in India FOR FOREIGN SUPPLIERS (I) FOR DELIVERY OF CRANE TO MUMBAI PORT (ii) FOR DELIVERY OF CRANE TO KOLKATA/HALDIA PORT	
3.	Insurance (marine) charges from manufacturing works upto Port in India.(for foreign suppliers) (i) FOR DELIVERY OF CRANE TO MUMBAI PORT (ii) FOR DELIVERY OF CRANE TO KOLKATA/HALDIA PORT	
4.	Custom Duty ,Counter Veilling Duty,Custom Clearance ,Port Handling and Documentation Etc. in India shall be born by BHEL (In case of foreign bidders) Excise Duty ,CST (AGAINST C,FORM),For Supplies from India	
5.	SUPERVISION CHARGES FOR ASSEMBLY, TESTING & COMMISSIONING OF CRANE AT BOTH THE BHEL SITES. (FOR WORKING OUT SUPERVISION CHARGES FOR EACH SITE THE ABOVE CHARGES SHALL BE DIVIDED BY TWO)	
6.	CENVAT BENEFIT TO BHEL AGAINST EX-DUTY (for indian bidders)	
7.	GRAND TOTAL OF 1 TO 5 MINUS 6.	

NOTES:

1. Bidders are required to quote for each and every item from 1 to 6 as indicated above. Please indicate NA against items not applicable. All Bidders will indicate EXWORKS / FOB price & Supervision Charges separately against at sl No. 1 & 5 of

the above schedule. Foreign Suppliers shall submit the ocean freight and Insurance in SI No 2&3. Indian supplier shall indicate Ex-Duty & CST and CENVAT separately against item at sI No 4&6.

- 2. Any other charges, if not specified above, may also be indicated.
- 3. Incomplete offer received may not be considered.
- 4. The Rate shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER OF THE TWO will be treated as valid rate.
- 5. The Rate Schedule (unpriced) shall be enclosed by the bidders in their technical bid (Part-I), confirming specifically that all the items of the Rate Schedule have been quoted.
- 6. In case of Indian bidders cenvat /modvat Credit (For Indian Bidders); The quotations must indicate Tarrif Item Number and rate/value of Ex-Duty applicable and CENVAT credit available to BHEL in such case ,party shall raise Cenvatable Invoice as per Excise Law/Rules. The amount of CENVAT Credit to BHEL will be considered while evaluating the bids.

(Signature and Seal of Tenderer)