

PART-I

TECHNICAL CUM QUALIFICATION BID

NOTICE INVITING TENDER

1.	Name of work	Reconditioning of 75 Ton Capacity Crawler Mounted, TATA P&H CRANE-MODEL 955 ALC
2.	Location of work	At BHEL works
3.	Earnest Money Deposit	Rs. 40,000/-
4.	Last Date for Receipt of Tenders	06-01-2014
5.	Date of Technical cum Qualification Bid Opening	06-01-2014
6.	Date of Price Bid Opening	Will be intimated separately to those who are technically qualified.
7.	Guarantee Period for workmanship	12 (Twelve) Months from the date of actual completion of the entire work and handed over to Bharat Heavy Electricals Limited, Trichy.

The Tender documents can be down loaded from BHEL website / govt. website at free of cost.

Reconditioning of 75 Ton Capacity Crawler Mounted, TATA P&H CRANE-MODEL 955 ALC		
Sl.No.	Description	Vendor to specify details
	<u>QUALIFICATION CRITERIA</u>	
1	Only those vendors, who have experience and carried out the following activities are eligible to participate in the tender:	
1.1	Under taken reconditioning work on Crawler / Tyre mounted TATA P&H or TATA MITSUBISHI crane in the past FIVE years and such cranes should be working satisfactorily for a minimum period of one year after completion of commissioning, as on the date of opening of this tender.	
1.2	Vendor should have the capability of refurbishing/retrofitting of existing electrical control panel, with the latest state of art technology.	
2.0	The vendor should submit following details (Sl. Nos. 2.1 to 2.5) which are necessary for qualifying their offer.	
2.1	Name and postal address of the customer or company where similar Reconditioning of TATA P&H or TATA MITSUBISHI crane has been done.	
2.2	Name and designation, Phone, FAX No. and E-mail address of the contact person of the customer.	
2.3	Month and year of Reconditioning, erection & commissioning has been done.	
2.4	Details of Reconditioned TATA P&H or TATA MITSUBISHI Cranes.	
2.5	Along with Technical offer, the Vendor should submit one performance certificate from the customer / BHEL units for the satisfactory performance of the Reconditioned TATA P&H or TATA MITSUBISHI crane.	
2.6	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

COMPANY PROFILE

Sl.No.	PARTICULARS	BIDDERS RESPONSE
1.	Name of Company/Firm	
2.	Status of the Company/Firm	1.Proprietorship 2.Partnership
3.	Full address of the Company/Firm	
4.	Name of the Proprietor/Partner of the Company/Firm (in case of Partnership, deed copy should be submitted)	
5.	Registration No. and date of Company/Firm (copy should be enclosed)	
6.	Telephone/Fax No. of the firm	
7.	Company's PAN No: (copy should be enclosed)	
8.	Company's SERVICE TAX No: (copy should be enclosed)	
9.	Company's E-mail Address	
10.	P.F. Registration No.	
11.	E.S.I. Registration No.	

PART-I		
TECHNICAL BID		
Reconditioning of 75 Ton Capacity Crawler Mounted, TATA P&H CRANE-MODEL 955 ALC		
Sl.No.	Description	Comments
<u>SPECIFICATION AND SCOPE OF WORK</u>		
1.0	<u>CRANE DETAILS</u> Crane Model: 955 ALC. Sl. No.: T 9395. Year of Manufacture: March 1973	
2.0	The work involves Reconditioning of all the mechanical and electrical systems of the above mobile crane as detailed below (Sl. Nos. 2.1 to 2.3.14)	Vendor to confirm
2.1	Removal of the existing Engine assembly and refitting of the engine supplied by BHEL.	Vendor to specify & confirm
2.2	A. The existing twin disc Clutch Assembly in the engine shall be removed and the new twin disc Clutch Assembly supplied by BHEL shall be fitted with the engine assembly. B. The wear portions on drive sprocket teeth has to be metal built by welding and ground to suit the existing chain.	Vendor to confirm
2.3.0	The following items (Sl. Nos. 2.3.1 to 2.3.14) are to be reconditioned / replaced as identified and agreed during the joint inspection at the time of execution. The dismantling /reconditioning / replacement (as per joint inspection) and assembling of the parts are under the scope of the vendor.	Vendor to confirm
2.3.1	The Magneto-Torque swing control system. Slip rings for sides, brush holders and brushes for the slip rings are to be changed by new one.	
2.3.2	Dog clutch, male clutch Vertical propeller shaft bushes	
2.3.3	The sprockets, propel chain, axle & end link assembly. The wear in the sprockets are to be welded and ground. Sprocket Teeth's are to be metal filled for 10mm, on both faces. Teeth profile is to be ground and suited with template. New Track rollers and pads are to be assembled.	
2.3.4	Both sides Steering System, with renewal of one side dog clutch male piece.	
2.3.5	All Brake-bands and clutch bands (boom, hoist, planetary).	
2.3.6	All brake cylinders and clutch cylinders.	
2.3.7	Complete body work (welding, tinkering, painting, driver seat and glass fitment work) are to be carried out.	
2.3.8	Control & Power cables : Conductors used shall be – Copper, HR PVC insulated, Non hygroscopic Fillers may be used to make the cable circular, and PVC Inner sheathed, FRLS PVC Outer Sheathed Cable.	

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2.3.9	Three phase Alternator overhauling.	
2.3.10	All compensators are to be changed completely.	
2.3.11	Hoist Hook-3 pulleys to be changed by new one (4 pulleys). All pulley bushes/bearings are to be changed.	
2.3.12	Boom 100 feet to be installed with 4 pulleys hoist hook. Necessary additional boom pieces will be supplied by BHEL,	
2.3.13	Swing roller to be checked and changed.	
2.3.14	Contractor should clean the area, after completing the work then and there and scraps/wastes generated due to the above work are to be moved to the identified area.	
Sl. No.	Description	Vendor to specify details
3.0	<u>GENERAL SCOPE OF WORK</u>	
3.1	The Crane has to be reconditioned at BHEL – Trichy works.	
3.2	Labour portion for reconditioning, consist of complete dismantling, cleaning, manual work, assembling, painting, wiring and trial run. The above works are in the scope of the contractor.	
3.3	After dismantling and cleaning of the Crane at BHEL works, the supplier has to prepare list of spare parts required for replacement. The required spares lists are to be mutually agreed, during joint inspection with the contractor. BHEL shall supply the identified parts as above from BHEL stock at stores. In the event of any part(s) not readily available with BHEL, such of these spares will be supplied by the contractor for which a supplementary order will be issued to the contractor.	
3.4	Two coats of painting to be carried out after one coat of primer. Necessary paints, primers will be supplied by BHEL.	
3.5	Assembly & re-erection of Crane at BHEL, by the contractor.	
3.6	Commissioning of Crane is in the scope of contractor after reconditioning.	
3.7	The decision of BHEL-Trichy representative will be final in the matter of reconditioning of Crane. BHEL representative shall carry out inspection from time to time at each stage. Contractor shall extend necessary cooperation to enable such inspection.	
3.8	Retrofitting of existing control panel including complete wiring is to be done by the contractor, with the latest state of art technology to ensure safety interlocks for the equipment and men with all features existing now or even more superior. The existing electrical wiring diagram is enclosed along with enquiry for ready reference.	
3.9	The supplier shall quote the lump sum rate separately for labour cost and retrofitting of electrical control panel for the scope mentioned at Sl. Nos. 3.0 to 3.6 and Sl. No. 3.8 respectively in their price bid.	

4.0	<u>GENERAL TERMS AND CONDITIONS:</u>	
4.1	<p><u>SPARES:</u> The available spare parts (electrical/mechanical) for reconditioning will be supplied by BHEL-Trichy, at free of cost. Wherever Spares not available shall be identified by BHEL & Contractor and the same will be supplied by the contractor for which supplementary order will be issued to them. The genuine spares are to be procured only from OEM (M/s Tata Mitsubishi) or from their authorised dealers.</p>	
4.2	<p><u>SUPPLEMENTARY ORDER</u> A supplementary Order shall be released based on the offer for Spare parts not available with BHEL identified during joint inspection.</p>	
4.3	<p><u>FACILITIES ON FREE COST BY BHEL</u> Necessary crane and other material handling equipment for dismantling of P&H crane or movement of heavy components will be provided by BHEL, at free of cost. General tools / instruments required for dismantling, assembly, erection & commissioning shall be arranged by the contractor. Any other special tools / instruments (if available) will be provided by BHEL at free of cost.</p> <p>Painting brushes, cotton waste, kerosene, welding machine, hand grinder, compressed air, Oxy-acetylene gas, and gas cutting set, welding set with cables and all consumables will be provided by BHEL at free of cost. Any(minor) machining work required will be provided by BHEL at free of cost.</p>	
4.4	<p><u>LIQUIDATED DAMAGES:</u> If the contractor fails to commission the crane at M/s BHEL works after completion of reconditioning as per the scope of work order, within the time of completion specified, BHEL will deduct liquidated damages, a sum equivalent to 0.5% of the total contract value (including labour, and the cost of spares) for each week of delay, up to a maximum of 15% of the total contract value.</p>	
4.5	<p><u>PAYMENT TERMS:</u></p> <p>a) 20% of contract value (excluding cost of spares) will be paid after dismantling and cleaning of the crane, followed by preparation of list for replacements – agreed jointly by BHEL and contractor.</p> <p>b) 40% of contract value (excluding cost of spares) will be paid after fitting the new engine assembly, assembling of complete crawler drive system.</p> <p>c) 90% of value of retrofitting of electrical panel will be paid on receipt and acceptance of electrical panel. (Sl. No. 2 of Price Schedule)</p> <p>d) 100% payment will be paid for materials supplied under Supplementary Order on receipt and acceptance of material.</p> <p>e) 30% of contract value (excluding cost of spares) will be paid after satisfactory completion of balance work and conducting load test.</p> <p>f) Balance 10% of contract value will be paid against performance bank guarantee of like amount to be executed by the contractor and it shall be valid for one year to cover warrantee for the performance of the machine.</p>	

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4.6	DELIVERY: The Supplier has to complete the dismantling and cleaning the crane within 40 days from the date of handing over the crane at BHEL. Supplier has to complete all the reconditioning work & conduct load test within 90 days, after issue of supplementary order for spares by BHEL.	
4.7	The contractor has to provide a warranty for their entire workmanship and the spares replaced for a period of twelve months from the date of commissioning. Any failure/problem, during this period shall be attended by the contractor at free of cost.	

TERMS AND CONDITIONS

1. The Bidders shall submit the offer in TWO PART BID SYSTEM (Part -I & II) as indicated below which shall be sealed in ONE OUTER ENVELOPE.
2. Envelope I- This sealed envelope should contain accepting all the above technical points together with un-priced commercial bid. This envelope should be clearly marked "**Part I - Technical and commercial bid**", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
3. Envelope II should contain sealed **EMD** cover indicating the enquiry detail and also it should contain copy of service Tax Registration certificate.
4. Envelope III - This sealed envelope should contain price details. This envelope should be clearly marked as - "**Part -II Price bid**", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
5. All the 3 envelopes (Part I, EMD and Part II) shall be put in one cover, duly sealed, super scribing as offer for Enquiry No., and due date of opening, Name of the work and the address and reference of the Bidder.
6. The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered.
7. Tender should not be addressed to any Individual's name, but only by designation to:

**THE SENIOR MANAGER
MAINTENANCE&SERVICE / PLANNING,
2&4 BUILDING,
BHARAT HEAVY ELECTRICALS LIMITED,
HIGH PRESSURE BOILER PLANT,
TIRUCHIRAPALLI - 620 014.
TAMIL NADU, INDIA.**
8. Tenders should be free from CORRECTION AND ERASERS, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures.
9. Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.

OPENING OF TENDERS

10. The Part I - Technical & Un-priced commercial bid alone would be opened on the Tender opening date (as mentioned in the enquiry) by 14.30Hrs (IST).

11. The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the Price bid opening date.

12. Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

13. Earnest Money deposit is to be paid by the vendor along with offer. The value of earnest money deposit is Rs.40000/-. EMD is to be remitted in demand Draft only in favour of M/s BHEL, Trichy 14. EMD shall not carry any interest. **The offer without EMD will not be considered for evaluation.**

14. Bidders who have already deposited One Time EMD of Rs. 2.00 lakhs with BHEL are exempted from submission of EMD for this tender. However a copy of 'One Time EMD' at BHEL Trichy submitted shall be enclosed along with the Offer.

15. Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The rate of Security Deposit will be 10% of the contract value up to 10 Lakhs. Above Rs. 10 lakhs up to Rs.50 lakhs will be Rs.1 lakh + 7.5% of the contract amount exceeding Rs. 10 lakhs.

EMD of the successful vendor can be converted and adjusted against the security deposit. If the contractor fully performs and completes the works in all respect to the entire satisfaction of BHEL, Security Deposit will be released to the contractor after deducting all costs of expenses of other amounts that are to be paid to BHEL.

16. The Security Deposit shall not carry any interest.

17. RETURN OF SECURITY DEPOSIT:

If the contractor fully performs and completes the works in all respect to the entire satisfaction of BHEL, Security Deposit will be released to the contractor after deducting all costs of expenses of other amounts that are to be paid to BHEL.

18. **INSURANCE COVER FOR MEN & MATERIALS:** The Contractor shall arrange necessary Insurance cover with appropriate Third Party Liability cover Personal Accident Policy as applicable for the workmen crew. If any accident/injury/loss occurs while erection of the crane, to any other persons/ public and the properties of BHEL/client/other agencies/third party, the contractor shall have to pay necessary compensation and other expense, so decided by the appropriate authorities.

19. The workmen of contractor should be covered under PF, ESI.

20. Safety precautions have to be ensured by the Contractor Depending on the work nature. Necessary work permit system and personal protective equipment's (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt etc. as applicable to Mechanical works should be adhered while carrying out the work.

21. Applicable Taxes, if any should be mentioned separately.

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22. The Contractor may visit to the BHEL Premises before quoting to access the quantum of work.

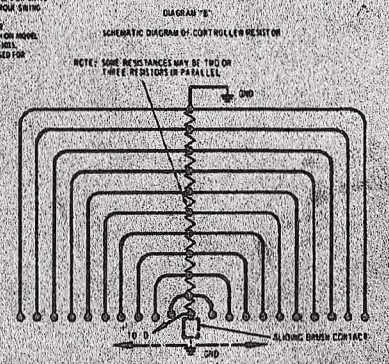
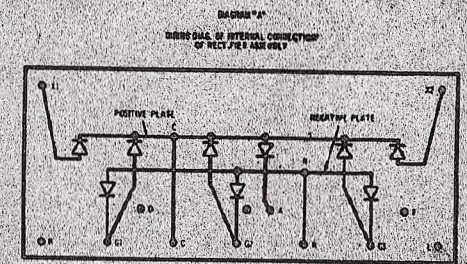
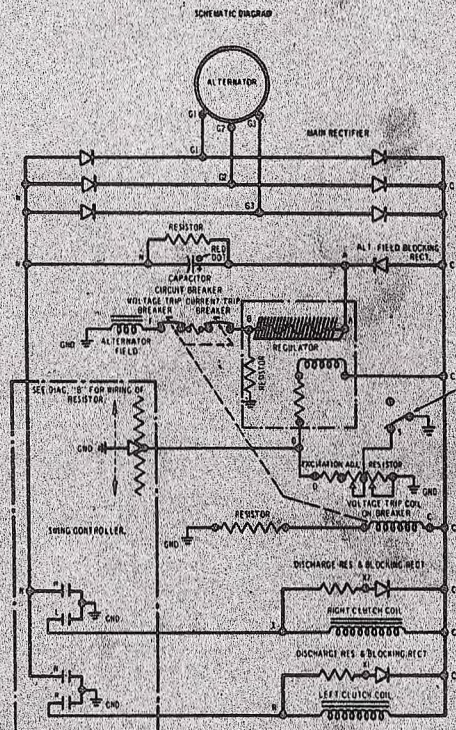
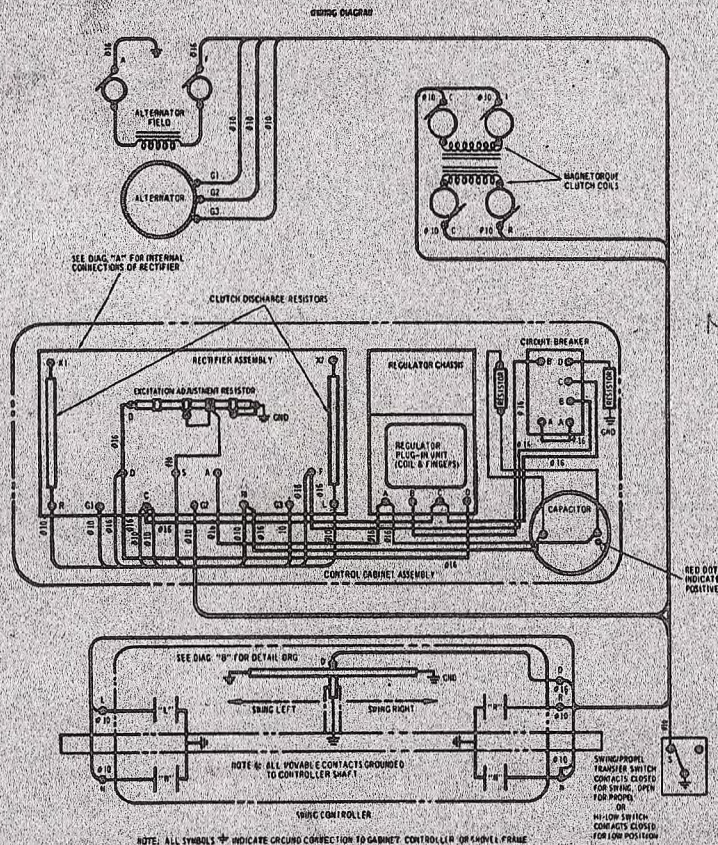
IMPORTANT NOTE FOR SERVICE TAX

1. A copy of Service tax registration Certificate shall be submitted along with the offer.

2. At the time of bill passing, the Contractor Shall submit the copy of the remitted Service tax challan of previous month/Quarter as proof of service tax remitted to tax authorities and also a Certificate Stating that "Service Tax Collected from BHEL has been remitted to tax authorities".

3. If the Contractor is not registered then a declaration shall be submitted along with offer that they are within the threshold limit.

PART-II			
PRICE BID			
Name of work: Reconditioning of 75 Ton Capacity Crawler Mounted, TATA P&H CRANE-MODEL 955 ALC			
Contractors should fill the rate, sealed and placed in a Cover separately by superscribing as PART-II/PRICE BID, Name of work, Tender ref no due date on the Cover			
Sl. No.	Description of work	No. of Crane	Rate (in Rs.)
1	Labour charges for reconditioning; consist of complete dismantling, cleaning, manual work, assembling, painting and trial run.	1	
2	Retrofitting of existing Electrical Control panel, components, systems including complete rewiring	1	
<p>Note:</p> <p>1. Applicable taxes for Labour charges and Supply shall be mentioned separately in their offer.</p> <p>2. Contractor should quote for Sl. Nos. 1 & 2 separately. Cumulative L1 value of both the items will be considered for arriving at the lowest Technically & Commercially acceptable offer.</p>			



Note: For checking electrical circuits for this system use an AVO meter. Never use a Megger.

Figure 6. Wiring Diagram