



## **Bharat Heavy Electricals Limited**

Power Sector - Southern Region

EVR Periyar Building

690 (old no 474), Anna Salai, Nandanam

Chennai - 600 035.

Phone: 044 – 24310242, 28286829, 24348048, Fax: 044 – 24348048

E-mail address: [er@bhelpssr.co.in](mailto:er@bhelpssr.co.in), [seenu@bhelpssr.co.in](mailto:seenu@bhelpssr.co.in)

**TENDER NO: BHEL: PSSR: FEX:248:46E DT: 07-04-2010**

### **1.0 SCOPE OF WORK**

- 1.01. Providing services of Engineer/technician, for repair, servicing, break down & preventive maintenance works of the cranes.**
- 1.02. Providing services of Engineer/technician for Dismantling, loading of the cranes at respective sites as per the modules identified by BHEL as per loading advise slip for each crane and unloading assembly, commissioning and load testing of the cranes at the respective sites.  
Identification of components, tagging, and packing the crane spares in wooden boxes/crates provided by BHEL during dismantling and loading and verification of the same on receipt destination site, reporting of discrepancies/damages if any to be recorded and intimated to site in charge with copy marked to FEX/Chennai.**
- 1.03. Reconditioning of worn out components**
- 1.04. Major repair and servicing of cranes**
- 1.05. Supply of sundry spares**

### **2.0 SERVICE CHARGES**

- 2.1 Service charges shall be quoted as per the rate schedules format enclosed. Rates quoted shall be firm for a period of TWO YEARS from the date of work order.**
- 2.2 Supply of sundry spares and reconditioning works as detailed in the specification else where.**
- 2.3. Service Tax as applicable will be paid by BHEL**



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### **3.0 TIME SCHEDULE**

The agency shall provide the services to attend the complaints within week's time at sites after the receipt of written confirmation from site, followed by FEX. PSSR HQ.

### **4.0 TERMS OF PAYMENT.**

90% payment will be released at BHEL/PSSR/HQRS/CHENNAI or at respective sites on submission of the invoice duly certified by SITE IN CHARGE of the site. Remaining 10% shall be payable after the completion of the contract. EMD will be converted into security deposit and shall be released for payment after successful completion of the contract.

### **5.0. TOOLS AND PLANTS.**

- 5.01. All the Tools and Plants (except crane) required for the repair and servicing work shall be arranged by the contractor. Assist crane required for attending the repairs shall be provided by BHEL free of hire charges. However operator and fuel required for assist crane have to be arranged by the bidder
- 5.02. Assist cranes for dismantling, loading, unloading assembly & testing and for major repair & servicing of cranes, will be provided by BHEL free of hire charges. However operator and fuel required for assist crane have to be arranged by the bidder.
- 5.03. D shackles, wire ropes and slings will be provided by BHEL at the respective sites free of hire charges subject to availability.



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### **6.0 CONSUMABLES AND SPARES**

- 6.01. Necessary consumables like Diesel, petrol, Kerosene, gas, lubricating oils/compounds, filters and grease and welding electrode will be provided by BHEL free of cost. In case BHEL has not provided the above items, the bidder has to arrange the above items at site and cost incurred by the bidder for arranging the above items shall be reimbursed by BHEL on production of bills/receipts as certified by BHEL In charge. Necessary T & Ps required for carrying out greasing shall be provided by BHEL free of hire charges**
- 6.02. Wooden Sleepers if available will be provided free of charges by BHEL at sites. They are to be properly accounted and returned to BHEL STORES after the completion of work.**

### **7.00. DISMANTLING, LOADING, UNLOADING, ASSEMBLY & COMMISSIONING OF CRANES**

- 7.01. Depends upon the facilities available at sites, Allotment of Man days will be decided by HQ/FEX For dismantling, loading, unloading, assembly and commissioning and load testing of the cranes at sites. Transportation of cranes will be arranged by BHEL. However, Transportation may also be arranged by rate contract agency on account of urgency and Cost of transportation will be paid by BHEL on submission of bill as certified by HQ/FEX.**

### **8.00. MAJOR REPAIR AND SERVICING OF CRANES**

- 8.01. Prior to carrying out Major repair and servicing of cranes, a joint inspection shall be carried out on the crane proposed for major repair and servicing at site by a team comprising members from FEX/HQ, FEX/SITE & Rate contract agency. After ascertaining the extent of repairs and spares required for the repair works, an estimate for Man days will be prepared for the total repair & servicing works duly signed by the team before commencing major repair and servicing of cranes**



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### **9.0 SPECIAL TEMS AND CONDITIONS**

**All the spares costing less than 0.5% of the present replacement cost of each crane shall be arranged by the Tenderer as sundry spares. Payment for the sundry spares will be reimbursed as per the price list of the OEM/OCM or Authorized dealers of Original equipment manufacturer/original component manufacturer.**

**9.01. Major spares such as booms & Engine will be arranged by BHEL**

**9.02. Reconditioning of worn out items on cranes shall be carried out by the rate contract agency at 30% of the original spares cost with guarantee of Six months.**

**9.03. Any repair and servicing to be carried out on engine of the cranes shall be Arranged by BHEL through Original equipment manufacturer of the Engine or the Authorized dealer. In case, BHEL has not arranged, the same work may be assigned through the rate contract agency to the Original equipment manufacturer of the Engine or the Authorized dealer. Expenditure involved for repair and servicing shall be paid by the rate contract agency to OEM/Authorized dealer and same will be reimbursed to the rate contract agency on production of valid documents for the expenditure incurred for such works and the service charges to the agencies for the service rendered. Transportation will be arranged by BHEL. In case, transportation is arranged by the rate contract agency, the Transportation and conveyance charges will be paid to the rate contract agency by BHEL for this work.**



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- 9.04 .It is the responsibility of the Tenderer to take precautions for safe working and avoid any damage to the property/equipments lying nearby, failing which the cost towards the repair/replacement will be recovered from the contractor.**
- 9.05 It is the responsibility of the Tenderer to arrange passes or entry permit as per BHEL/CUSTOMER procedure followed in the plant premises through BHEL Site office.**
- 9.06 It is the responsibility of the Tenderer to follow the safety precautions while carrying out the work.**
- 9.07. The contract will be awarded at L-1 rates (Lowest rates arrived) to more than one agency whoever agree to operate at L-1 rates.**
- 9.08. Unskilled workers, if required shall be provided by BHEL free of cost.**
- 9.09. Service charges per day will be paid for 10 hours per day. Agency shall be available for work minimum 10 hours per day including one hour lunch brake. Generally the work is to be carried out as per the BHEL timings at site. However depending upon the requirements /exigencies the job is to be continued beyond normal working hours. Sometimes round the clock, tenderer should provide required manpower to meet the needs as part of contract and the payment for the extended hours of work beyond normal working hours will be made proportionately at the accepted service charges per day.**
- 9.10.Service charges shall be payable whenever the services are provided during holidays.**
- 9.11.Service charges shall not be payable when there is no work on holidays. However Accommodation charges is payable on holidays, if the services are commenced and continued before and after holidays**



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### **10.0 OPERATION AND MAINTENANCE OF CRANES**

**10.01. Rate shall be quoted for proving one operator, one mechanic and one helper for operation and preventive/routine maintenance of various capacity cranes available at PSSR sites as per the RATE SCHEDULE- II enclosed The works involved under operation and maintenance of cranes are as follows.**

- Operation of cranes
- Daily routine checking of Oil/lubricants/water/coolant/electrical etc and cleaning of crane
- Checking and filling/topping up of lubricants, Fuel, Brake oil, Water, coolants etc as and when required.
- Periodic Greasing & application of cardium compound as per lubrication schedule.
- Checking & replacement of Air Filters
- Checking & replacement of Cylinder kits and other small spares.
- Monitoring of defects in cranes and identification of spares
- Minor trouble shooting works

### **11.0 QUALIFICATION REQUIREMENTS FOR CRANE OPERATOR**

#### **1 FOR CRAWLER CRANES TATA 320 18MT & 75MT CAPACITY TATA 955ALC /TATA TFC-280 :**

**The crane operator shall have experience (Not less than 3 years) in operation of such crawler cranes or above capacity crawler cranes and shall be able to read operation and maintenance manual, boom load chart, boom angle and other indicating devices and same shall be confirmed by the Vendor.**



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### **2 FOR CRAWLER CRANES 80MT, 100MT, 135MT & 150MT**

The crane operator shall have experience (Not less than 3 years) in operation of such cranes or 100MT and above capacity Hydraulic operated crawler cranes and shall be able to read operation and maintenance manual, boom load chart, boom angle and other indicating devices and same shall be confirmed by the Vendor.

### **3 FOR CRAWLER CRANES ABOVE 150MT, 226/325MT FMC, 250MT KOBELCO CKE 2500-2, LIEBHERR LR 1350 & CRANES UP TO 700MT**

The crane operator shall have experience (Not less than 3 years) in operation of such cranes or 150MT and above capacity Hydraulic operated crawler cranes and shall be able to read operation and maintenance manual, boom load chart, boom angle and other indicating devices and same shall be confirmed by the Vendor.

The crane operators shall possess valid Heavy Motor Vehicle license (HMTV). In the event of not possessing HMTV License, the operator is required to be designated as qualified operator by a source that qualifies crane operators. The source may be Independent testing and qualifying company, or certified by any Government/ Public Sector undertaking organization by an officer in the rank of Dy.General Manager (DGM) and above.

### **4. QUALIFICATION REQUIREMENTS FOR MECHANIC :**

Shall possess experience and have knowledge in repair and servicing of Hydraulic cranes supported by relevant documents.

**5.OEM/Authorized agencies of OEM are qualified for operation and maintenance of their own cranes supplied by them.**

### **6. PHYSICAL QUALIFICATION**

Operator and mechanic shall have latest Physician's certification for their physical fitness in Vision with/without Lenses & Adequate hearing with or without hearing aid.



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7. Necessary documents to meet the qualification requirement of operators and mechanic shall be produced by the bidder for verification before engaging the crew for operation of cranes.

### **12. OTHER TERMS & CONDITIONS UNDER O&M OF CRANES.**

- 12.01 Operator, Mechanic & Helper shall have to work eight hours a day excluding one hour break. Working hour shall be decided by BHEL site In charge as per site convenience.
- 12.02. Allotment of weekly holidays for operator and his crew is at the discretion of BHEL and will be decided by respective sites. Only holidays as declared by BHEL apart from weekly holidays have to be followed. This may have to be adjusted by crane operator and his crew to suit the requirement of site. If necessary, Operator with his crew shall be available for the operation of crane at site on weekly/National holidays in exigency.
- 12.03. Working on holidays shall be paid extra at prorata basis. On holidays working less than 4 hours will be treated as  $\frac{1}{2}$  (Half) day and more than 4 hours to 8 hours will be treated as full day. Beyond 8 hours working will be treated as Over time.
- 12.04: In case of emergency, at the discretion of Site In charge, the Operator and his crew will be engaged for over time on regular working days and holidays. Over time charges for regular working days and holidays will be paid on pro rata basis





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- 12.05 Day to day Routine maintenance of the crane shall be carried out by crew deployed as per operation and maintenance manual. Spares, consumables, Lubricants and fuel required for the above work will be provided by BHEL free of charges.**
- 12.06. Crane if required for maintenance works will be provided by BHEL free of charges**
- 12.07. This maintenance contract does not cover major jobs such as Major overhauling, Break down maintenance, dismantling, assembly other than routine maintenance work.**
- 12.08. In case of absence of operator and his crew, the bidder should make an alternative arrangement for the continuation of work to meet the erection requirements at site.**
- 12.09. Quoted rate for O&M is all inclusive. The bidder has to make their own arrangements for accommodation, transport and other amenities for their crew at site.**
- 12.10. 100% Payment shall be made every month at respective sites within a week's time as certified by Engineer In charge of respective site.**
- 13.0 SAFETY.**  
**BHEL is not responsible for any accident /injury to the Bidder's crew at site.**
- 13.01. The bidder has to assume full responsibility for the safety of their crew and to comply with all statutory/ safety regulations/security requirements of BHEL**



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### **14.0 STATUTORY REQUIREMENTS**

**14.01. All statutory requirements as per labour laws like ESI, PF etc., have to be arranged by the Tenderer. Necessary insurance (covering WC Act) for the workmen engaged by the Tenderer has to be taken at his cost and the copy of the same should be submitted before commencement of the work.**

**14.02 A copy of the policy covering the staff to be engaged for a period of two years should be submitted within 10 days after the receipt of the Work Order or Necessary insurance policy for the work men engaged shall be taken at the respective site before starting the work at site**

**An indemnity bond shall be given by the contractor stating that all expenditure caused due to failure of statutory obligations on the part of the tender shall be borne by the Tenderer.**

**Thanking you,**

**Yours faithfully,  
 For BHARAT HEAVY ELECTRICALS LTD.,**

**ADDL. GENERAL MANAGER/FEX**