



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 70 49

Fax : +91 431 252 07 19

Email : csguna@bheltry.co.in

Web : www.bhel.com

TWO PART BID

Tender to be submitted in two parts.

**Enquiry
Number:**

2620900168

**Enquiry
Date:**

31.08.2009

**Due date for submission
of quotation:**

19.10.2009

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	Battery Operated Fork Lift Truck– 3 Ton as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	9 Nos.

Important points to be taken care during submission of offer

1. Delivery required 6 months from the date of purchase order.
2. Grace period of 2 months beyond the above delivery period will be considered.
3. Checklist to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.

BHEL's General guidelines / instructions (refer MM/CE/GT/001) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2620900168".

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

Sr.Manager / MM / Capital Equipment

PART A
BATTERY OPERATED FORK LIFT-3 TON

SECTION – I : QUALIFYING CRITERIA

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
1	<p>Only those vendors (OEMs), who have supplied and commissioned at least ONE Battery operated Fork lift of capacity 3 Ton or higher the past five years (on the date of opening of Tender) and such machine is presently working satisfactorily for more than one year after commissioning (on the date of opening of Tender) should quote.</p> <p>However, if such machine had already been supplied to BHEL, then that machine should be presently working satisfactorily for more than six months after it's commissioning and acceptance (on the date of opening of Tender).</p>	
	The vendor should submit following information where similar machine has been supplied for qualification of their offer.	
1.1	Name and postal address of the customer or company where similar machine is installed.	
1.2	Name and designation of the contact person of the customer.	
1.3	Phone, FAX no and email address of the contact person of the customer.	
1.4	Month and Year of commissioning of the machine.	
1.5	Application for which the machine is supplied	
1.6	Along with the Technical offer, the Vendor should submit one Performance certificate from the customer for the satisfactory performance of the machine supplied to them. For obtaining the Performance certificate, a suggestive format is provided in SECTION – IV .	
1.7	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.	
2.0	DELIVERY - The bidder shall quote the best possible delivery. However the delivery shall not exceed 6 months with an additional grace period of 2 months. The additional grace period will attract a penalty which is explained in the commercial terms of the enquiry.	

	The delivery period shall be reckoned from date of purchase order to despatch from the vendor works.	
3.0	The BIDDER / VENDOR shall have a minimum of FIVE Years of Continuous Experience in the Design; Manufacture & Supply of Battery operated Forklifts. Indicate the actual experience.	

SECTION – II

The BIDDER / VENDOR is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
4.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where Battery operated Forklifts has been supplied in the past.	
5.0	Details of Battery operated Forklifts supplied to other BHEL units, if any. (Year of commissioning, capacity)	
6.0	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centers in South India.	
7.0	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

SECTION – III

The BIDDER to note:

S. No.	PARTICULARS	VENDOR'S RESPONSE
8.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	
9.0	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder , against each clause. A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement where specific details are required may lead to disqualification of the Technical Offer.	
10.0	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
11.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

SECTION – IV

The performance certificate should be produced **on Customer's Letter Head.**

PERFORMANCE CERTIFICATE

1. Supplier of the machine		
2. Make & Model of the M/C		
3. Month & Year of Commissioning		
4. Application for which M/C is used		
5	a) Mast Lift height b) Capacity	
6. Performance of the Machine (Strike off whichever is not applicable)		Satisfactory / Good / Average / Not Satisfactory
7. After sales service (Strike off whichever is not applicable)		Satisfactory / Good / Average / Not Satisfactory
8. Any Other remarks		
<div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <div>Date:</div> <div>Signature & Seal of the Authority Issuing the Performance Certificate</div> </div>		

SPECIFICATION FOR 4 TON BATTERY OPERATED FORK LIFT

Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
1.0	PURPOSE :			
1.1	For handling and movement of material of General nature with in factory campus	Vendor to note		
2.0	SCOPE			
2.1	Battery operated forklift truck with Electronic Chopper Controller fitted with Driver's seat, overhead guard, and head light horns and with necessary safety accessories Rear view mirror and fork locking arrangement. Are to be incorporated (Built in Design)	Vendor to Confirm		
3.0	OPERATING PARAMETERS			
3.1	Capacity-at 500mm load centre	3000 Kg		
3.2	Turning Radius	Vendor to specify		
3.3	Travel speed- unladed 10-12 KMPH	Vendor to specify		
3.4	Travel speed- Laded 8-10 KMPH	Vendor to specify		
4.0	CONSTRUCTION FEATURES			
4.1	Double mast	Vendor to confirm		
4.2	Mast closed height-2500mm approx	Vendor to specify		
4.3	Lift height-3500mm approx	Vendor to specify		
4.4	Press lift-280mm approx	Vendor to specify		
4.5	Fork length-1100mm approx	Vendor to specify		
4.6	Forward Tilt-5 degrees	Vendor to specify		
4.7	Backward Tilt-11 degrees	Vendor to specify		
4.8	Tyres- Solid Rubber (Cushion) non skid	Vendor to specify		

CABS-3-52N -Battery Operated Fork Lift-3 Ton

Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
4.9	Following three types of Brakes to be provided. 1. Electrical brake 2. Mechanical brake 3. Hand operated parking brake	Vendor to specify		
4.10	Hydraulic system- A pump directly driven from the separate motor gives adequate power for all hydraulic operation. Specially designed balanced spool. Valves operate the lift and tilt movements. Pressure relief valve protect the system from shock or overload.	Vendor to specify		
4.11	Steering- Feather touch hydrostatic power steering actuated by the accelerator pedal must be provided. It should meter and direct oil volume proportional to the amount of turn, to the appropriate side of piston in the steering cylinder.	Vendor to confirm		
4.12	Suspension- Front and rear spring damper system	Vendor to confirm		
4.13	The operator seat should be adjustable nature in forward and backward motion	Vendor to confirm		
4.14	Hook to be provided for towing purpose	Vendor to confirm		
4.15	Head light and Rear side Red reflector to be provided.	Vendor to confirm		
5.0	ELECTRICALS			
5.1	Variable speed totally enclosed motor with series field of H class insulation, uni-drive with regenerated braking of suitable capacity and make acceptable to BHEL	Vendor to specify		
5.2	Traction battery of suitable capacity and make acceptable to BHEL-Preferred Voltage is 72V-376AH	Vendor to specify		
5.3	Battery charger of suitable capacity and make acceptable to BHEL-for input power supply of single phase 230V	Vendor to specify		

CABS-3-52N -Battery Operated Fork Lift-3 Ton

Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
6.0	CONTROL			
6.1	Speed control -The control circuit should consist of “MOSFET ELECTRONIC CHOPPER CONTROLLER” so as to provide smooth, silent, efficient and cost effective speed control and have following features. <ol style="list-style-type: none"> 1. Battery power saver. 2. Various safety measures like <ol style="list-style-type: none"> a. Armature current limit. b. Potentiometer fault protection. c. Thermal protection. d. Under voltage protection. 	Vendor to specify		
6.2	Low voltage relay for battery protection with alarm indication	Vendor to specify		
6.3	Effective regenerative electrical braking.	Vendor to specify		
6.4	Under voltage/over load current protection with tripping and resetting arrangement.	Vendor to specify		
7.0	O & M MANUALS			
7.1	Each Transloader shall be provided with <ol style="list-style-type: none"> a. Complete set of Tools required for Maintenance, b. 3 Copies of Operation & Maintenance Manual hard copy & one soft copy in CD, [containing the following technical details, given under Clause Sl. No. 7.2] 	Vendor to confirm		

CABS-3-52N -Battery Operated Fork Lift-3 Ton

Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
7.2	O&M Manual should contain the following. <ol style="list-style-type: none"> 1. Complete set of parts available in the equipment. 2. Complete operating instructions. 3. Complete maintenance instructions. 4. Detailed printed circuit board drawings for all PCBs. 5. Entire Circuit diagram with Chopper controller connections. 6. Detailed technical specification for all components, including bought out items (Electricals, Mechanicals, and Electronics and Hydraulics items). 	Vendor to confirm		
8.0	INSPECTION			
8.1	Each Transloader shall be tested for its performance at vendor's works in presence of BHEL engineer prior to despatch	Vendor to confirm		
9.0	COMMISSIONING			
9.1	Commissioning of the Transloader and Performance Prove –Out for the it's Capacity and Smooth Running (at BHEL Works) shall be the RESPONSIBILITY of the supplier.	Vendor to confirm		
10.0	PERFORMANCE GUARANTEE			
	The Performance of the Transloader and/or the Components / Sub-Assemblies / Bought-Out-Items shall be guaranteed for a minimum period of TWELVE months from the date of performance acceptance at BHEL Works or 18 months from the date of supply whichever is earlier.	Vendor to confirm		