



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7360
NOTICE INVITING TENDER	Email : ajayasalkar@bheltry.co.in
	: vijayak@bheltry.co.in
	Website : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2631800051	20.07.2018	13.08.2018

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	Back Hoe Loader as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in)	1 No.

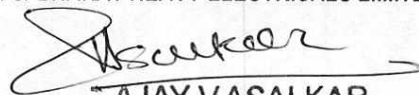
Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy .
2. Compliance Form No: TRY/IND/06 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 2 months from the date of Purchase Order.
4. Erection and commissioning shall be done at BHEL Trichy by the supplier.
5. Time period required for Erection and Commissioning shall be 2 weeks from the date of intimation by BHEL
6. EMD applicable.
7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> and <https://eprocure.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631800051".

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



AJAY V. ASALKAR

Sr. MANAGER

Sr. Manager / Capital Equipment / MM
BHEL, Tiruchirappalli - 620 014

PART A – Qualifying Criteria

The prospective tenderer (which term shall mean and include the manufacturer and/ or its agent(s,) viz. channel partner/ Marketing/ Trading houses or by whatever other name is known) must have supplied and commissioned, jointly or severally as the case may be at least 02 no. of similar equipment during the last 7 years ending last day of the month previous to the one in which tenders are invited.

PART B – Technical specification

BACK HOE LOADER TECHNICAL SPECIFICATION		
Sl. No	Part No.	Specification.
1.	Equipment	Diesel Engine driven, rugged, self-propelled, tyre mounted, two wheel drive , back hoe loader fitted with standard configuration buckets both on front and rear of suitable size and width to match the equipment with an operating weight of not less than 7.3 tons category for multipurpose applications like loading, lifting, carrying, excavating and miscellaneous cleaning works etc., in service workshops and processing plants. In addition to the front & rear end bucket , and additional bucket of 0.1 cum shall also supplied along with Equipment.
2	Working Ranges	Following details on front end and rear side may be furnished by the tenderer: <u>I) Front end loader details :</u> (a) Bucket type : (b) Bucket capacity in cu.m(not less than 1.0 cu.m) : (c) Lifting capacity at full height(not less than 1900kg) : (d) Height to bucket hinge pin (not less than 3200mm) (e) Dump height at bucket maximum angle(not less than 2500mm) (f) Bucket dump angle maximum(upto 50 degrees) : (g) Dump reach at maximum angle (not less than 700mm): (h) Roll back angle at ground level (not less than 38 degrees) : (h) Digging depth below ground level : (i) Maximum operating height(not less than 3400mm) : (j) Break out force (not less than 4000 kg): <u>II) Back hoe details :</u> a) Bucket type : b) Bucket capacity (not less than 0.20 cu.m) : c) Boom length : d) Arm length : e) Digging force of bucket (not less than 5000kg) : f) Digging force of Arm (not less than 3000kg) : g) Maximum reach from centre of swing point at ground (not less than 5000mm): h) Reach from centre of rear axle : i) Maximum digging depth (not less than 4000mm) : j) Bucket rotation in degrees: k) Side shift travel from center line (not less than 450 mm) : l) Maximum cutting height

3	Dimensions	Following details of the equipment may be specified: i) Wheel Base mm ii) Length in mm iii) Width in mm iv) Maximum overall height in mm v) Ground clearance in mm vi) Turning radius.
4.	Engine	Suitable diesel engine to develop adequate power but not less than 75hp gross power requirements. The following details to be furnished: 1. Make 2. Model 3. Bore X stroke 4. Displacement 5. H.P. 6. Max. Torque. 7. RPM 8. Nos. of cylinders and their arrangement. 9. Fuel consumption/hr 10. Type of fuel pump & fuel injection system. 11. Weight of the engine. 12. Details of starting and charging system.
5.	Transmission	Details of transmission with no of gears & speeds in forward and reverse may be furnished
6.	Axles	Details of front and rear axle shall be furnished.
7.	Final drive	Description of power transmission to wheels shall be furnished by the tenderer . The offered model shall be of two-wheel drive.
8.	Brakes	The loader should be provided with safe, reliable and effective brakes. Main brake shall be of hydraulically actuated multiple disc type, while parking brake shall be spring applied mechanically/hydraulically/pneumatically released one. Description and type of all the brakes provided against the offered model equipment shall be furnished by the tenderer.
9.	Steering	Shall be of hydrostatic Power Steering type. Details of steering mechanism and manner of steering actuation i.e., levers/joy stick operated, shall be furnished by the tenderer.
10.	Hydraulic system	The following details may be furnished: 1. Type, make & number of pumps 2. Flow rate of pumps 3. Working pressure 4. Details of hydraulic motors (if any) 5. Tank capacity

11.	Diesel tank	Diesel tank capacity to be specified by tenderer. Suitable gauge/ indicator shall be provided in the equipment to indicate diesel level at any time. Details may be furnished by the tenderer.
12.	Details of Tyres.	The loader should be provided with suitable tyres for rough terrain applications on front and rear. Details of the tyres like type, size, make etc to be furnished.
13.	Cabin	Ergonomically designed Comfortable, spacious, Steel Cabin to be provided. All controls provided in the cabin should be within the easy reach of the operator. Features shall include cabin lights, instrument panel lights, horn, comfortable operator seat, rear view mirror. List of gauges and indicators offered in the dashboard shall be indicated by the tenderer.
14.	Electrical system	Electrical system should be 12 V DC. Maintenance free, fully sealed battery shall be offered. Details of Battery, self-starter, alternator, etc shall be furnished.
15.	Lighting arrangement & miscellaneous	Minimum lighting requirement: 2 Head Lights, 2 Rear Lights, cabin light. Back up alarm, horn assembly.
16.	Safety Standards for Equipment	The equipment should meet all the statutory requirement of the local transport authority and should be manufactured as per applicable standards.
17.	Tenderers may note/confirm/comply as the case may be against following : 1. Detailed product catalogue shall be submitted along with the offer showing features and technical parameters of the quoted model 2. Only maintenance free, fully sealed, industrial batteries of reputed make suiting to this class of application are acceptable. 3. The prospective tenderer (which term shall means and include the manufacturer and/ or its agent(s,) viz. channel partner/ Marketing/ Trading houses or by whatever other name is known) must have supplied and commissioned, jointly or severally as the case may be at least 02 no. of similar equipment during the last 7 years ending last day of the month previous to the one in which tenders are invited.	

SPECIAL CONDITIONS:

1. Vendor should furnish separate offer, valid for one year for the minimum required spares for operation of one year. Offer may be rejected without this.
2. Vendor should furnish separate offer, valid for one year for the applicable attachments. Offer may be rejected without this.
3. Preventive maintenance spares are to be provided for the whole warranty period without any extra to BHEL.
4. On site annual maintenance during warranty period is in the scope of vendor only which includes replacement of oils, Filters and Two set of teeths for both front & back bucket.
5. Commissioning & Training
 - a) Equipment should be door delivered at BHEL Trichy at vendor cost including loading, Transporting, unloading, assembly, Transit insurance and the vendor has to quote accordingly. The Equipment should be commissioned within Five days from the date of delivery at BHEL Trichy and made operable. Necessary commissioning engineer should be deployed by vendor for the commissioning and they should educate the mechanic and the equipment operator of BHEL for the safe operation of equipment.
 - b) All the spares & consumables (excluding Fuel – Diesel), including Transmission oil, Engine Oil, Gear Box oil, etc required for commissioning of the equipment should be supplied by the agency.
 - c) Equipment should be commissioned and operated to the full satisfaction of BHEL. BHEL decision on completion of commissioning is final.
 - d) BHEL Operators should be trained in the safe and efficient operation of the equipment to the satisfaction of BHEL. Necessary skill service provider of Vendor should be made available at BHEL Trichy for this purpose.
 - e) While operating the equipment necessary Dos and Don'ts should be taught to the BHEL Operators for ensuring the efficient and safe operation of the equipment.
6. Equipment Transportation, Registration & insurance
 - a) As the equipment may have to be taken out of the BHEL ,Trichy Premises to do cleaning and other operations, vehicle should be registered under Tamilnadu RTO office and necessary Road Tax and comprehensive 1 year Insurance should be taken for the equipment. The expenditure incurred for Registration, insurance and other incidental charges are in the scope of vendor only and vendor has to quote accordingly. No separate payment shall be given by BHEL for the same.
 - b) Loading, Transportation, Unloading and transit Insurance are in the scope of vendor and to be paid by the vendor only.
 - c) Vehicle should be registered under Tiruverumbur, Trichy area TN – RTO. Vehicle registration and comprehensive 1 year Insurance Documents should be submitted within a reasonable period of 2 months from the date of supply of the equipment. The final 20% payment will be released to the agency only after receiving the original documents of registration and insurance. This comprehensive insurance should be valid for a period of 1 Year.

7. SERVICE DURING WARRANTY PERIOD:

- a) Service During warranty period Vendor should attend to the break down service call within a day to ensure the availability of the equipment.
- b) Vendor should carry out the periodical servicing of the equipment as per, the equipment manufacturer's schedule directly or through its authorized agencies.
- c) Vendor should also educate the technician available with BHEL for the regular servicing and periodical preventive maintenance of the equipment.
- d) Agency should also submit the spare catalogue (2NOS) for the BHEL reference purpose.
- e) Minimum Warranty Period 12 Months or 3000 hrs whichever is earlier. Any downtime of the equipment after 24 hours of information given by BHEL to agency will be added as extra warranty period.

8. PERFORMANCE GUARANTEE:

Agency should supply performance Bank Guarantee (PBG) from any nationalized bank as per the proforma issued by BHEL for the 10% of purchase value and the same should be valid throughout the completion of warranty period.

9. QUALITY & INSPECTION

- a) Vendor should submit their Manufacturing Quality plan along with their official/ firm officer. Quality will be approved by BHEL and stage /Final – pre dispatch inspection will be carried out by BHEL based on the approved quality plan.
- b) VENDOR should submit Equipment / engine test certificates and various other stage Inspection / Test documents for the scrutiny and record purpose of BHEL. The list of Test certificates and documents that will be made available should be mentioned in the Quality plan submitted by VENDOR for our reference purpose.
- c) Equipment operation & Maintenance Manual (HARD COPY) should be submitted in THREE Copies along with the equipment for our reference purpose.
- d) List of Standard Tools & Tackles required for the regular maintenance and operation of the equipment should be approved and supplied by the agency along with the equipment without any extra cost to it and the same to be indicated in the offer.