



SO 9001:2000  
&14001:2004  
MAHARATNA  
COMPANY

**MATERIAL MANAGEMENT (PURCHASE)**  
**CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR**  
**RANIPUR, HARIDWAR (INDIA) – 249403**  
Phone No.01334-281277/285635, FAX No. 01334-225892  
e-mail :[ranjank@bhelhwr.co.in](mailto:ranjank@bhelhwr.co.in), [svn@bhelhwr.co.in](mailto:svn@bhelhwr.co.in)

**Sub: Tender Enquiry No: 3026P/371/2/0793P2.**

Dear Sir,

We are pleased to invite offer as per enclosed specification with terms and conditions in sealed envelop for the under mentioned material.

Sl No	Tender No	Description of Material	Qty	Date & Time of Tender Opening
01	3026P/371/2/0793P2	Band Saw Machine.	1 Number	03-04-2013 at 2.00 PM (IST)

Kindly read terms and conditions carefully. Offer not submitted in accordance with the instructions is liable to be disqualified or ignored.

Please visit [www.bhel.com](http://www.bhel.com) or [www.bhelhwr.co.in](http://www.bhelhwr.co.in) for more details and tender documents.

Please also download Supplier Registration Form and submit same dully filled.

Thanking You,

Yours Faithfully,  
For & On behalf of CFFP BHEL Hardwar

(Ranjan Kumar)  
Sr.DGM (Purchase)

**Note: Corrigendum if any shall not be published, kindly visit web-site for any changes.**



निविदा सूचना  
**TENDER ENQUIRY**

AA-17001

भारत हैवी इलैक्ट्रिकल्स लिमिटेड  
**Bharat Heavy Electricals Ltd**

सेन्ट्रल फाउन्ड्री फॉर्ज प्लांट- हरिद्वार - २४६४०३ (भारत)

**Central Foundry Forge Plant, Haridwar-249403 (INDIA)**

Phone : (0091) 01334- 281639,281385,285336

Fax : 01334 225892 / 226458

TIN NO. 05001763485

C S T NO. HR-5018287 Dt. 16-03-1995

निविदा सूचना सं. ENQUIRY NO.*	3026 P/ 3711/2/0793P2	दिनांक Date	27-02-2013
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कृपया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING :

M/S. ::

**DUE DATE**

**03-04-2013**

::

:

**Vendor Code**

**09285**

INDIA

SL	MATERIAL CODE ITEM DESCRIPTION	QUANTITY	UNIT	LOTNO	LOT DELIVERY QTY SCHEDULE
1	FF4210612030 BAND SAW MACHINE, CUTTING CAPACITY-275MM MINIMUM , ROUND/SQUARE, FEED DRIVE MOTOR- 5.0 H.P MINIMUM, SPECIFICATION NO- CFF/QM/CML/02 REV 00 SPEC: X REV: ??	1	NO		As per tender doc of annexure-1

**\*\* IMPORTANT:** This enquiry is 2 part tender. Techno-Commercial bid (Part-1) & Price Bids (Part-2) should be submitted in separate envelopes. These two envelopes should be submitted in a common sealed envelope. Techno-Commercial Bid shall contain detailed Technical Specification, Drawings Technical documents, Catalogues, taxes & duties, payment terms, delivery period, Validity of offer, Replica of Price Bid (Copy of price bid without price part) etc. The confirmation to the special terms & conditions must be submitted alongwith Techno-Commercial bid.

**Standard Instructions:**

TEST CERTIFICATE REQUIRED.

GUARANTEE CERTIFICATE REQUIRED.

ERECTION/COMM REQ AT SITE.

OPERATION/MAINT MANUAL ALONGWITH EQPT.

**Special Instructions:**

02 - ATTACHMENT-

- ANNEXURE- A OF COMMERCIAL TERMS AND .
- ANNEXURE- C OF GENERAL TERMS AND CONDITIONS.
- ANNEXURE D OF E PAYMENT FORMAT.
- ANNEXURE E OF PRICE BID FORMAT.
- ANNEXURE II OF BG FORMAT.
- ANNEXURE III OF CONSORTIUM BANK LIST.
- ANNEXURE V OF T & C OF REVERSE AUCTION.
- SPECIFICATIONS CFFP/QM/CML/02 REV. 00 DATED 22.06.2011.

**General Instructions:**

1. Please submit authorization letter (format enclosed) for facilitating e-payment/electronic transfer of funds

Page No 1

★ महत्वपूर्ण : कृपया कोटेशन देने से पूर्व पीछे दिए गये अनुदेशों को ध्यानपूर्वक पढ़िये।

**IMPORTANT : PLEASE READ CAREFULLY THE INSTRUCTIONS GIVEN ON REVERSE BEFORE QUOTING**



निविदा सूचना  
**TENDER ENQUIRY**

भारत हैवी इलैक्ट्रिकल्स लिमिटेड  
**Bharat Heavy Electricals Ltd**  
सेन्ट्रल फाउन्ड्री फॉर्ज प्लांट- हरिद्वार - २४६४०३ (भारत)  
**Central Foundry Forge Plant, Haridwar-249403 (INDIA)**

AA-17001

Phone : (0091) 01334- 281639,281385,285336

Fax : 01334 225892 / 226458

TIN NO. 05001763485  
C S T NO. HR-5018287 Dt. 16-03-1995

निविदा सूचना सं. ENQUIRY NO.*	3026 P/ 371/2/0793P2	दिनांक Date	27-02-2013
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कृपया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING :

MATERIAL CODE                      QUANTITY    UNIT                      LOTNO  
ITEM DESCRIPTION

2. 100% payment within 30 days after receipt & acceptance of material at CFFP BHEL, Hardwar through e-payment.
  3. CFFP/BHEL RESERVES THE RIGHT TO PRE-INSPECT THE MATERIAL AT VENDOR'S WORKS / GODOWN/ PREMISES BEFORE DESPATCH.
  4. ORIGINAL MANUFACTURER'S TEST CERTIFICATE IS REQUIRED ALONG WITH DESPATCH DOCUMENTS. IN CASE SUPPLIES ARE FROM TRADERS, IT SHALL BE THE RESPONSIBILITY OF THE TRADER TO PROVIDE ORIGINAL MANUFACTURER'S TEST CERTIFICATE WITH LINKAGE TO TRADER'S INVOICE STATING BATCH NO.
  5. CFFP/BHEL Reserves the right to procure from more than one vendor.
  6. Please quote prices in figures & words both. In case the prices quoted in words and figures are different, the values indicated in words will be considered for evaluation & establishing L1 status.
- \* The offers of the bidders who are on the banned list as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on web site [www.bhel.com](http://www.bhel.com)

**MANOJ KUMAR YADAVA**  
**SR. ENGINEER (PUR.)**

\* महत्वपूर्ण : कृपया कोटेशन देने से पूर्व पीछे दिए गये अनुदेशों को ध्यानपूर्वक पढ़िये।

**IMPORTANT : PLEASE READ CAREFULLY THE INSTRUCTIONS GIVEN ON REVERSE BEFORE QUOTING**



G T C C - dt.05.01.2012.

## **GENERAL TERMS AND CONDITIONS OF TENDER ENQUIRY**

### **ANNEXURE- C**

1. Submit the tender in two parts i.e.

**Part-I Techno-Commercial Bid**

**Part-II Price Bid**

Techno-Commercial (part one) & Price Bid (part two) should be put in separate sealed envelopes. Both envelopes should be super scribed with **Tender Number, Date of Opening & Technical / Commercial Bid** and **Price Bid** respectively along with name of firm.

Both the envelopes i.e. containing Techno-Commercial Bid and Price Bid should again be kept in one envelope super scribed again with Tender No. and Date of Opening and the name of firm submitting the tender. to **AGM (MM),Purchase Department ,CFFP ,BHEL Hardwar,Ranipur ,Hardwar 249403.Uttarakhand ,India** .It is responsibility of vendors to submit their offer in time. Late offer will not be considered.

Part-I Envelopes super scribed with **Techno-Commercial Bid** must contain all information especially:-

(a) Specification of the material offered should be strictly as per CFFP/BHEL specifications of Enquired material in tender documents. **Deviations if any must be indicated clearly in the offer. Rates to be quoted on FOR destination basis.**

(b) All commercial terms i.e. packing, forwarding, Custom Duty ,Additional Duty ,ST/STT/VAT/CST, Excise duty/CVD , Bank Charges, payment terms & Insurance etc as applicable should be clearly mentioned **except Price** .Also mention present rate of applicable taxes & duties even if inclusive in rates.

(c) Confirm to submit all required commercial documents (tax invoice, cenvatable duplicate copy of invoice, packing list, transit sale agreement etc.)& technical documents (TC/GC/QP etc.)

(d) Registration Numbers of SSI, Central Excise, Sales tax, Income tax, DGS & D, ECC etc.

(e) **Un-priced copy of Price Bid.**

Part-II Envelopes super scribed with **Price Bid** should contain **priced copy of Price Bid**. The price should be mentioned both **in figures and words**.

2. Authorized Signatory should authenticate all tender documents.

3. **Techno-commercial bid (Part-I)** will be opened on the due date at 2.00 PM. In the presence of participating vendors or authorized representatives, who may wish to be present. Representative deputed to witness tender opening must produce an authority letter from the signatory of offer. After evaluation of technical bids & finalization of technical, commercial terms & condition, price bid of only successful vendors will be opened. Priced bid opening date will be intimated separately.

4. The material offered must conform to the required BHEL specifications and drawings as well as instructions and details made available.

5. **Original Test Certificate & other related Documents** from the original Manufacturer's test certificate is to be confirmed in the offer itself which is to be submitted along with dispatch document.

06. CFFP/BHEL Hardwar reserves the right to accept or reject any or all tenders without assigning any reason there of.

07. Tenders not submitted in the prescribed manner are likely to be ignored/ rejected.

08. **Agent /Agency Commission:** Payment of any kind at any stage will not be made to Agent on account of agent commission or otherwise by CFFP BHEL Hardwar.

09. **Inspection:** CFFP BHEL Hardwar inspection after receipt shall be final and binding. BHEL reserve the right to pre-inspect at Vendor's works or BHEL may nominate any testing house for inspection..

10. Dispatching port & Country to be mentioned.

11. Vendor must submit the annual report giving the audited profit or loss account and balance sheet for last three financial years including current year ending.

The vendors who are registered with any unit of BHEL, India, in related category shall give the details also.

12. CFFP may assess the company profile before placement of purchase order as per BHEL practice and / or procedures wherever felt necessary.

**Commercial Terms**

Item - Band Saw Machine.

Qty - 01 No

Confirmation/comments on the conditions given below are mandatory. Please confirm the following or else your offer is liable to be rejected.

	<b>Description</b>	<b>Vendor comment /Confirmation</b>
1	Material shall be supplied as per enquiry no 3026P/371/2/0793P2 in all respects without deviation. Point wise reply / confirmation of attached specification no. CFF/QM/CML/02 REV 00 dated 22.06.2011 is required.	
2	Guarantee/warrantee required for two years from the date of successful commissioning of the machine in line with clause no 18 of technical specification.	
3	Pre dispatch inspection (PDI) of material is required at vendor's works. The material will be dispatched only after getting clearance from BHEL. Vendor will inform min 15 days prior intimation to BHEL for PDI.	
4	Delivery shall be made on FOR Destination basis, destination being Stores/CFFP/BHEL Haridwar, Freight & Insurance charges to vendor's account.	
5	<p><b>Payment Terms:</b> 80% payment of Supply value shall be made within 45 days from the date of receipt of material at BHEL. Balance 20% of Supply value plus 100% of the E&amp;C portion of PO value will be paid against E&amp;C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.</p> <p><b>For foreign supplier:</b> Payment of Supply value shall be 80% on dispatch through through USANCE LC on 70th day of bill of lading date and 20% on issue of E&amp;C Certificate by trunk transfer. All bank charges shall be to vendor's account.</p> <p>* Format and list of consortium bank is attached. * In case vendor does not agree, proper loading shall be done</p>	
6	Validity of offer: Minimum 180 days from tender opening date.	
7	Prices shall be firm till execution of Order.	
08.	Provide name of contact person, mobile no. & email address.	
09	LATE DELIVERY PENALTY CLAUSE (LD): Penalty for late delivery shall be applicable @ 0.5% per week and part thereof subject to a maximum of 10% of total P.O. value (Total material cost + packing and forwarding + freight + E&C) from the date of scheduled delivery of Purchase Order.	
10.	E&C value should be quoted separately by bidders. In case where quoted value of E&C is less than 5.0 % of basic Equipment cost or separate E&C values are not mentioned in the offer, value for E&C portion shall be considered 5.0 % of basic Equipment cost & accordingly supply value will be adjusted from that quoted value.	
11.	Replica of price bid (without price part) required along with offer.	
12.	Disputes: In event of any dispute arising out of contractual obligation, the order being finalized at Haridwar, India will be subject to Indian laws and falls under jurisdiction of the court of Law at Haridwar, India. The overseas supplier hereafter referred to as "Vendor" shall therefore abide by the verdict of court of Law at Haridwar, India.	

13.	Delivery of material will be required within 105 days (90 days + 15 days for arranging PDI at vendor works) from purchase order date.	
14.	Vendors who are not registered with CFFP BHEL Haridwar, duly filled "Supplier Registration Form" (available at <a href="http://www.bhel.com">www.bhel.com</a> ) with all the supporting documents has to be submitted along-with techno-commercial bid of offer. Please confirm that SRF is being submitted with your offer, if applicable. Please note that, if in any case duly filled up SRF along-with all the supporting documents is not received within 15 days of tender opening, offer will liable to be ignored.	
15	CFFP BHEL reserve the right to obtained price bid through reverse auction. Please confirm your acceptance.	
16	BHEL will prefer to deal directly with foreign vendor/ original manufacturer. In case, vendor engages any Indian agent or take service of any Indian agent, copy of agent agreement required along with offer in line with Annexure-IV attached.	
17	<ul style="list-style-type: none"> <li>- In case any column is left blank, it shall be deemed to be accepted by vendor.</li> <li>- If any difference is found for any term and condition in the offer and this annexure "A", the terms quoted in this annexure 'A' shall be deemed as final and binding on vendor.</li> <li>- Evaluation shall be on the basis of delivered cost (i.e.) "total cost to BHEL".</li> </ul>	

Date:

Signature with Seal of the Company.

**Price bid Format**

Annexure- E

Enquiry No. 3026 P/371/2/0793P2

S.N.	Parameters	Cost
1	Main Equipment cost complying all parameters of technical specification.	
2	Cast of essential spares as per point no 7 of technical specification.	
3	Cost of accessories as per point no. 8 of technical specification.	
4	Erection and commissioning charges i.e. min 5 % of basic Equipment cost.	
5	Applicable Taxes and duties.	Excise Duty.....
		CST.....
		Any other.....
6	Freight and transit insurance charges upto CFFP BHEL Haridwar Stores inclusive of service tax.	

**NOTE:**

A.	Copy of this sheet <b>without price part</b> must be submitted alongwith techno-commercial offer.
B	List of items and quantity quoted against above point no 2 &3 ( without price part ) must be submitted alongwith techno-commercial offer.

Signature with seal of company.

**Terms and conditions regarding Indian agent of foreign suppliers:**

01. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines- which require mandatory submission of an Agency agreement.
02. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
03. The agency agreement should specify the precise relationship between the foreign OEM/Foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier / Indian agent. Any payment, which the agent or associate receives in India or aboard from the OEM, whether as commission or as a general retainer fee should be brought on record in the agreement and be made explicit in order to ensure compliance to laws of the country.
04. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
05. Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.
06. In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives/ associate/consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.
07. The "Guidelines for Indian Agents of Foreign Suppliers" enclosed at annexure- 'A' shall apply in all such cases.
08. The supply and execution of the Purchase Order (including indigenous suppliers/service) shall be in the scope of the OEM/ Foreign principal. The OEM/ Foreign principal should submit their offer inclusive of all indigenous suppliers/services and evaluation will be based on 'total cost to BHEL'. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/services on Indian Supplier (s)/ agent on their behalf, the credentials/capacity/capability of the Indian Supplier (s)/ agent to make the supplies/Services shall be checked by BHEL as per the extant guidelines of Supplier Evaluation, Approval and Review Procedure (SEARP), before opening of price bids. In this regards, details may be checked as per Annexure- 'B' (copy enclosed). It will be the responsibility of the OEM/ Foreign Principal to get acquainted with the evaluation requirements of Indian supplier/agent as per SEARP available on [www.bhel.com](http://www.bhel.com).

The responsibility for successful execution of the contract (including indigenous supplies/services) lies with the OEM/ foreign principal. All bank guarantees to this effect shall be in the scope of the OEM/Foreign principal.

**Guidelines for Indian Agents of Foreign Suppliers**

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
  - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
  - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
  - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
  - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
  - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
  - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

---X---

**Annexure-B**

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

\* In all other cases, extant guidelines of SEARP, 2010 are to be followed.

<b>SEARP (SRF) Clause No</b>	<b>Detail</b>
	<b>Name &amp; address of the firm</b>
<b>1.0</b>	<b>Products/ Systems / Services being considered for</b>
<b>2.0</b>	<b>General Information</b>
2.2	Name of Chief Executive
2.3	Details of authorized signatory
<b>3.0</b>	<b>Ownership Information</b>
3.1	Type of firm
3.2	Nature of Business <ul style="list-style-type: none"> <li>• <i>Attach <b>authorization letter</b> and <b>agency agreement</b> from Principal ( from whom capital equipment is procured)</i></li> <li>• <i>Attach copy of declaration from Foreign Principal for <b>total guarantee/ warranty of indigenous supplies</b></i></li> </ul>
3.3	Year of establishment
3.4	Year of commencement of business
<b>4.0</b>	<b>Registration particulars</b>
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN no
4.6	Service tax no. (in case of E&C)
<b>5.0</b>	<b>Organisational strength</b>
<b>6.0</b>	<b>Other particulars</b>
6.1	If the company is already registered with other units
6.2	Directors/ Partners, if related to any BHEL Employee
6.9	If any Ex BHEL Personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
<b>9.0</b>	<b>Financial information</b>
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation whichever is less )

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ANNEXURE-II

WAM-28

### Proforma for Bank Guarantee

In consideration of the Bharat Heavy Electrical Limited Siri fort N. Delhi through Division CFFP Hardwar (hereinafter called the Company') having agreed to exempt----- (hereinafter called 'the said Contractor' which term includes 'Suppliers' for the purpose of this Bond) from the demand under the terms and conditions of an Agreement no / PO no ----- date. ----- made between -----and ----- for (hereinafter called 'the said Agreement') of Security Deposit for the due fulfillment by the said Contractor of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. ----- (Rupees-----only).

1. We, \_\_\_\_\_ (Indicate the name of the Bank) (hereinafter referred to as 'the Bank') at the request \_\_\_\_\_ (Contractor (s) do hereby undertake to pay to the Company an amount not exceeding Rs. \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reason of any breach by the said Contractor (s) of any of the terms and conditions contained in the said Agreement.
2. We, \_\_\_\_\_ (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s), of any of the terms of conditions contained in the said Agreement or by reason of the contractor(s), failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, \_\_\_\_\_ (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall

continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_ Office / Department / Division of Bharat Heavy Electrical Limited certifies that the terms and conditions of the said Agreement have been fully and property carried out by the said contractor(s) and accordingly discharged this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_ we shall be discharged from all the liability under this guarantee thereafter.

5. We, \_\_\_\_\_(indicate the name of the Bank)\_\_\_\_\_ further agree with the Company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the power exercisable by the company against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
  
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
  
7. We, \_\_\_\_\_(indicate the name of the bank)\_\_\_\_\_ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.

Dated the \_\_\_\_\_ day of \_\_\_\_\_

For \_\_\_\_\_(indicate the name of the bank)\_\_\_\_\_

<b>LIST OF BHEL CONSORTIUM BANK</b>	
<b>1</b>	<b>State Bank of India</b>
<b>2</b>	<b>Canara Bank</b>
<b>3</b>	<b>Bank of Baroda</b>
<b>4</b>	<b>Punjab National Bank</b>
<b>5</b>	<b>State Bank of Hyderabad</b>
<b>6</b>	<b>State Bank of Travancore</b>
<b>7</b>	<b>Corporation bank</b>
<b>8</b>	<b>Syndicate Bank</b>
<b>9</b>	<b>Indian Bank</b>
<b>10</b>	<b>Oriental Bank of Commerce</b>
<b>11</b>	<b>UCO bank</b>
<b>12</b>	<b>Central bank of India</b>
<b>13</b>	<b>IDBI Ltd.</b>
<b>14</b>	<b>HDFC Bank Ltd.</b>
<b>15</b>	<b>ICICI Bank Ltd.</b>
<b>16</b>	<b>Kotak Mahindra Bank ltd</b>
<b>17</b>	<b>The Federal bank Limited</b>
<b>18</b>	<b>Abn-Amro Bank</b>
<b>19</b>	<b>Citi Bank</b>
<b>20</b>	<b>HSBC</b>
<b>21</b>	<b>Deutsche Bank</b>
<b>22</b>	<b>Standard Chartered Bank</b>
<b>23</b>	<b>United bank of India</b>
<b>24</b>	<b>Vijaya Bank</b>
<b>25</b>	<b>Union Bank of India</b>
<b>26</b>	<b>Bank of India</b>
<b>27</b>	<b>Andhra Bank</b>
<b>28</b>	<b>Punjab &amp; Sind Bank</b>
<b>29</b>	<b>Axis Bank</b>

**GENERAL TERMS AND CONDITIONS OF REVERSE AUCTIONING**

Against this enquiry for the subject item /system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING ON INTERNET.

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 the vendor in writing in case of reverse auction, 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 Cost to CFFP/BHEL” basis which covers all parameters of specification and commercial terms for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
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. 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.
11. 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.

AUTHORISATION LETTER  
FOR E-PAYMENT/ELECTRONIC FUNDS TRANSFER (EFT/RTGS)  
PLEASE FILL UP THE FORM IN CAPITAL LETTERS ONLY

ANNEXURE-D  
Page 1 of 1

TYPE OF REQUEST (Tick One)	<input type="checkbox"/>	CREATE	<input type="checkbox"/>	CHANGE
<u>BHEL Vendor/ Supplier Code</u>	<input type="text"/>			
Company's Name	<input type="text"/>			
Address	<input type="text"/>			
City	<input type="text"/>			
Pincode	<input type="text"/>			
State	<input type="text"/>			
Contact Person(S)	<input type="text"/>			
Telephone NO.	<input type="text"/>			
FAX. No.	<input type="text"/>			
e-mail id	<input type="text"/>			
1. Bank Name	<input type="text"/>			
2. Bank Address	<input type="text"/>			
3. Bank Telephone No.	<input type="text"/>			
4. Bank Account No.	<input type="text"/>			
5. Account Type.	<input type="text"/>			
6. Bank's Branch Code	<input type="text"/>			
7. Bank Swift Code	<input type="text"/>			
(aplicable to EFT only)				
8. Enclose blank cancelled cheque	<input type="checkbox"/>	<input type="checkbox"/>		

DECLARATION

1. I as representative/Owner of the above named company, hereby authorize BHEL CFFP, Ranipur, Haridwar to electronically make payments to the designated bank account. I hereby certify that the particulars given above are true, complete and correct.  
(2) If the transsation is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL/transfereing Bank responsible.
3. This authority remains in full force untill BHEL, CFFP, Ranipur, Haridwar receives & acknowledge written notification requesting a change or cancellation.
4. I have read the contents of the covering letter and agree to discharge the responsibilty expected of me as a participant under E-payment/EFT/RTGS.

Date:

Authorized Signatory  
Designation

Company Seal

Verification By Bank

	<b>CFFP/BHEL, RANIPUR, HARDWAR, INDIA</b>	
	<b>BAND SAW MACHINE</b>	<b>Spec: CFF/QM/CML/02 Rev 00 Date-22/06/11</b>
	<b>Note :</b>	
1	The "VENDOR TO CONFIRM/SPECIFY" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete,	
2	The offer and all documents enclosed with offer should be in English language only.	
3	Any deviation may be clearly mentioned.	
4	Vendor should furnish required information/confirmation against each and every clause of this technical specification. This complete specification is a CHECKLIST	
5	Meeting the Qualification requirement as per Clause 19 is very important for the vendor. This should be strictly adhered.	
6	Our requirement is of a DOUBLE COLUMN BAND SAW MACHINE. Vendor to offer in line with the same	
7	The supplier is to submit acceptance / deviation statement against each clause of this technical specification along with the offer.	

<b>SCOPE: SUPPLY, ERECTION &amp; COMMISSIONING OF DOUBLE COLUMN BAND SAW MACHINE COMPLYING WITH SPECIFICATIONS AS</b>			
<b>Sl. NO.</b>	<b>CFFP/BHEL,HARDWAR REQUIREMENT</b>	<b>BHEL REMARK</b>	<b>VENDOR REPLY.</b>
1	<b>Scope:</b> The specification covers the supply, erection and commissioning of metal cutting band saw machine with all necessary accessories, spares etc.	Vendor to confirm	
2	<b>Objective:</b> The band saw machine shall be required for cutting of test sample of different grades of steel like carbon steel, alloys steel, stainless steel, creep resistant steel etc of castings and forgings.	Vendor to confirm	
3	<b>Broad design features:</b> The machine should be semi-automatic, double column type with high natural stability and non vibrating drive for an optimal cutting capacity. The complete drive and saw frame should be laid parallel on strong wear resistant column support.	Vendor to confirm	

<b>Technical Specifications:</b>			
4.1	Capacity : (a) Round- dia 275 mm Minimum (b) Square-275x275 mm Minimum ( c ) Minimum blank Size -10 mm	Vendor to specify & confirm	
4.2	Saw blade Speed : 20-80 meter / minute	Vendor to specify & confirm	
4.3	(a) Feed Drive Motor - 5.0 HP Minimum	Vendor to specify & confirm	
4.3	(b) Hydraulic Motor - 1.5 HP Minimum	Vendor to specify & confirm	
4.3	( c ) Coolant Motor - 0.12 HP Minimum	Vendor to specify & confirm	
4.4	Band Saw blade- dimension , material, grade, TPI etc	Vendor to specify	

<b>General features of machine:</b>			
5.1	Semi automatic typed machine with hydraulic clamping vice and rapid reverse of cutting arm with auto height stop on return stroke	Vendor to confirm	
5.2	Hydraulic blade tensioning system and guides to keep the blade under constant load at all times during cutting and tension release as soon as machine is off.	Vendor to confirm	
5.3	Hydraulic clamping pressure regulator with the clamping pressure display system.	Vendor to confirm	
5.4	Infinitely variable cutting speeds with direct display and feed control valve.	Vendor to confirm	
5.5	Hydraulically Controlled cutting feed for maintaining a constant cutting rate regardless of the work piece cross section.	Vendor to confirm	
5.6	Continuous indication of feed rate.	Vendor to confirm	
5.7	Provision of saw blade guide adjustment	Vendor to specify	
5.8	Well guarded blade and wheel cover, Bellows/sleeves for column	Vendor to confirm	
5.9	Automatic saw blade shut-off after completion of cutting.	Vendor to confirm	
5.10	Working time meter / cutting time meter.	Vendor to confirm	
5.11	'V' belt Power driven brush to keep the blade and saw guide free of chips for smooth cutting.	Vendor to confirm	
5.12	Coolant system with electric pump , coolant flow regulator, coolant level glass and overflow indication.	Vendor to confirm	
5.13	Fully automatic lubrication system.	Vendor to confirm	
5.14	Blade break sensor/ motion detector providing automatic shut off	Vendor to confirm	
5.15	Material support stand with hardened roller with each m/c for 2 metres long bars for after cut material	Vendor to confirm	
5.16	Chip Conveyor-Screw type/scrapper type, swarf conveyor with swarf chute for efficiently removing swarf leaving coolant behind.	Vendor to confirm	
5.17	Splash/ Chip guards on operator platform for protection of operator, operator's panel .	Vendor to offer	
5.18	Machine Lights for sufficient illumination of complete working area should be provided for clear visibility	Vendor to offer & specify details.	
5.19	Video images on CD including hard copy explaining the technical features/ Literature with photographs, drawings explaining the technical features should be submitted.	Vendor to submit	

<b>ELECTRICAL SYSTEM</b>			
6.1	415V +10% / -10%, 50HZ +/- 3 HZ, 3 Phase AC (3 wire system without neutral) Power Supply Source will be provided by BHEL at a single point near the machine, as per layout recommended by Vendor. All types of cables, connections, circuit breakers etc. required for connecting BHEL's power supply point to different parts of the machine/ control cabinets, etc., shall be the responsibility of vendor. Requirement of grounding/ earthing with required material (indian make) details is to be informed by vendor well in advance so that same could be incorporated during construction of foundation. The vendor can take earthing connection from the nearest column of the production shop. Vendor to provide test certificates for all the motors.	Vendor to confirm & specify	
6.2	All switches on the Operator's panel for selection of required cutting feed etc should be within reach of operator of average height of 5'6" for convenient, efficient & safe operation. All displays/ indications should also be conveniently placed accordingly. Splash /chip guards on operators platform for protection of operator, operators' panel. Layout showing complete details of the panel should be submitted.	Vendor to confirm & submit Photographs & Layout.	

Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	BHEL REMARK	VENDOR REPLY.
6.3	No fuses are to be used for protection of control/power circuits except semiconductor devices which are to be provided with semiconductor protection fuses. All other circuits to be protected using MPCB's, MCCB's, ACB's, MCB's etc. as appropriate	Vendor to confirm	
6.4	<b>Tropicalisation:</b> All electrical/ electronic equipment shall be tropicalized.	Vendor to confirm	
6.5	Complete panels to be fuseless except Thyristor drives, where thyristor protection fuses are to be used. In all other cases MCCBs/ MPCBs etc. to be used.	Vendor to confirm	
6.6	Acceptable make for Drives:- SIEMENS, Acceptable make for Switchgear components (like contactors, MPCBs,MCCBs ACBs etc.): - SIEMENS/ L & T	Vendor to confirm	
6.7	All cables to have bottom entry into panels. Power & Control terminals to be grouped separately with 10% extra terminals in each group.	Vendor to confirm	
6.8	The control voltage is to be single phase 220V,50Hz,AC.	Vendor to confirm	
6.9	All panels should be provided with voltmeter , ammeter and energy meter.They should also contain phase indicating LED's in incoming supply.	Vendor to confirm	
6.10	All electrical & electronic control cabinets & panels should be dust and vermin proof.	Vendor to confirm	
6.11	All electrical components in the cabinets should be mounted on DIN Rail	Vendor to specify	
6.12	All electrical and electronic panels including operator's panel should have provision of sufficient illumination and power receptacles of 220Volts, 5/15 Amp AC. All adapters/ receptacles should have compatibility with Indian equivalents.	Vendor to specify	
6.13	Motors should be A.C and conform to IEC or Indian Standards .	Vendor to confirm	
6.14	Vendor should ensure the proper earthing for the machine and its peripherals.	Vendor to confirm	
7.0	<b>ESSENTIAL SPARES</b>	Vendor to confirm & offer with details	
7.1	<b>Mechanical Spares</b>		
7.1.1	'O' Rings	2 sets	
7.1.2	Oil Seals for hydraulic cylinders	3 sets	
7.1.3	Belts for pulleys including timing belts used in machine	2 sets	
7.1.4	Filter /Filter Inserts(If reusable )	5 sets	
7.1.5	Filter /Filter Inserts(If disposable )	10sets	
7.1.6	All directional, pressure & flow control valves including servo valves	1 set	
7.1.7	All pressure switches, flow switches & float switches, Limit switches, level switches,presure gauges,presure regulator	2 sets	
7.1.8	Pumps (Hydraulic & Lubrication)	1 unit of each type	
7.1.9	Flexible Pipes with End Connections	1 set of each type	
7.1.10	Accumulator with Charging Kit	1 Set	
7.1.11	Clutches of all types	1 Set	
7.1.12	Pilot chuck valve	1 set	
7.1.13	Chain and sprocket,rollers,safety clutches,brakes and wearable parts,band saw guides,guide bearings, one set of drive & driven pulleys	vendor to confirm & submit details	
7.1.14	One complete set of Rubber hoses, pipes and connection(no of each pipes used in hydraulic, lubrication and coolant system) of machine	1 Set	
7.1.15	One set of seal kits of different hydraulic cylinders used in machine	1 Set	
7.1.16	One set of spindle bearings/bushes used in machine	1 Set	
7.1.17	Lubrication unit	1 no.	
7.2	<b>Electrical</b>		
7.2.1	Semiconductor fuse for Various Drives	3 nos. of each type	
7.2.2	Auxiliary Contactors	2 nos. of each type	
7.2.3	Power Contactors	2 nos. of each type	
7.2.4	Micro Switch	4 nos. of each type	
7.2.5	Temperature Sensors	2 nos. of each type	
7.2.6	MCB for control supply	2 nos. of each type	
7.2.7	MPCB for aux. drive	2 nos. of each type	
7.2.8	Push button green	5 nos.	
7.2.9	Push button red	5 nos.	
7.2.10	Emergency stop push button	2 nos.	
7.2.11	Signal lamp green	3 nos.	
7.2.12	Signal lamp red	3 nos.	
7.2.13	Selector Switch	2 nos of each type	
7.2.14	Limit switch	2 nos of each type	
7.2.15	Proximity switch	2 nos of each type	

Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	BHEL REMARK	VENDOR REPLY.
7.3	Vendor to offer the list of any special tool/spares required for at least two years,two shift trouble free operation and/or maintenance.This should include items for machine like hydraulic, electrical systems etc. It should include all attachments,accessories and peripherals. The spare's offer should contain individual item wise list along with price break up, its specification and source of supply.	Vendor to offer	
8.0	<b>ACCESSORIES</b>		
8.1	Machine lamps	Vendor to confirm	
8.3	Ball bearings for blade guides - 5 nos	Vendor to confirm	
8.4	Carbide wear plate set - 1 set	Vendor to confirm	
8.5	Screw type swarf/chip conveyor with container	Vendor to confirm	
8.6	Blade tension meter	Vendor to confirm	
8.7	Band saw blade - 10 nos	Vendor to confirm	
8.8	Material support stand(one meter length)	Vendor to confirm	
8.9	Length setting unit.	Vendor to confirm	
8.10	Variable vice pressure.	Vendor to confirm	
8.11	Feed Roller table ( two meter length,Power operated)	Vendor to confirm	
8.12	Cleaning Wire Brush- 10 nos	Vendor to confirm	
8.13	Feed pin- 4 nos	Vendor to confirm	
8.14	Feed control Knob assembly(3 set)	Vendor to confirm	
9.0	<b>MANUALS/DOCUMENTATION :</b> Five sets of following documents (Hard copies with Soft Copies wherever specified) in English language should be supplied along with the machine. Out of which,1st set is to be sent along with offer.	vendor to submit	
9.1	Detailed Maintenance manual of machine and supplied systems.	vendor to submit	
9.2	Maintenance, Interface & commissioning manuals for feed drives and auxiliary drive ,drive controller	vendor to submit	
9.3	Catalogues, Operation & Maintenance Manuals of all bought out items including drawings, wherever applicable.	vendor to submit	
9.4	Detailed specification of all rubber items and hydraulic/tube fittings	vendor to submit	
9.5	Operating instruction manuals, Maintenance Manuals & Catalogues for supplied accessories viz. Voltage Stabilizer etc.	vendor to submit	
9.6	Detailed assembly drawings of all units of the machine showing component/part name & their description.	vendor to submit	
9.7	Part drawing of all mechanical items ie gears,couplingshafts,lead screw with lead nut,Box nut etc	vendor to submit	
9.8	Detailed drawings showing for all Hydraulic, pneumatic showing components/parts and their descriptions.	vendor to submit	
9.9	List of all bearings used in machine	vendor to submit	
9.10	Complete list of parts/items( Bill of materials) used in the machine in English language.	vendor to submit	
9.11	Electrical Schematic Diagrams, Wiring Diagrams, Junction Box Layouts, Connector Diagrams and Cable Layouts of the machine in English.	vendor to submit	
9.12	Drawings of machine assemblies/sub-assemblies/parts including Pneumatic/ Hydraulic circuit diagrams. All Assembly/ Sub Assembly Drawings shall be supplied with the part list marked on it in English.	vendor to submit	
9.13	Details of display unit with its make and technical specification etc.	Vendor to submit	
9.14	All documents should also be submitted in CD and soft copy.	vendor to submit	
10	<b>General details:The Vendor should submit the following information :</b>		
10.1	Machine Model	Vendor to specify	
10.2	Total connected load (KVA)	Vendor to specify	
10.3	The machine capacity in items of chip removal rates.	Vendor to submit the details	
10.4	The total connections of the machine and peripherals.	Vendor to submit the details	
10.5	Total machine weight and maximum weight of sub-assembly(s) to be handled during commissioning.	Vendor to submit the details	
10.6	Floor space requirement for complete machine and accessories, overall size and height of the machine /equipment.	Vendor to inform	
10.7	Painting of Machine/ Electrical Panels: RAL 6011 Apple Green (Polyurethane Paint)	Vendor to inform	
10.8	Arrangement of lubrication of all moving /rotating part.	Vendor to submit the details	
10.9	Service requirement of compressor air,water etc. indicating supply condition.	Vendor to submit the details	
10.10	Requirement of any special coating on foundation to prevent seepage of oil,water etc.	Vendor to submit the details	
10.11	Maximum noise level in full load condition,it should be well within the specified limits of regulatory body.	Vendor to submit the details	
10.12	Detailed catalogue,sketch / photograph of machine accessories / attachment.	Vendor to submit the details	
10.13	Vendor to confirm that complete list of spares for machine and accessories, along with specification/ type/ model, and name & address of the spare supplier shall be furnished along with documentation to be supplied with the machine.	Vendor to confirm	
10.14	Reference list of customers to whom similar machine have been supplied mentioning contact person of customer,machine model, major specification,year of supply etc.	vendor to submit	

Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	BHEL REMARK	VENDOR REPLY.
10.15	All items of the equipment in this specification shall be complete in all respects and any equipment not covered in the specification, but is considered essential for proper design and operation of the machine shall be included by the supplier. If the supplier feels that in his opinion, by his experience and in accordance with the modern practice any of the item specified, he is in apposition to submit a better/ more suitable offer. He shall indicate them and submit the offer on the basis of the specifications he considers more suitable and capable of meeting the duty requirements and should clearly states its merits.	Vendor to offer & submit	
10.16	Deviation, if any	Vendor to specify in detail	
11	<b>ERECTION AND COMMISSIONING :</b>		
11.1	The supplier to take full responsibility for carrying out the erection & commissioning start up,testing of the system,it's control system & all types of other supplied equipment /accessories, machining of test pieces etc.Service requirement like power Air,water shall be provided by BHEL at only one point to be indicated by supplier in their foundation / layout drawings.	Vendor to confirm	
11.2	Broad schedule of erection and commissioning shall be submitted with the offer.Any charges,duration,terms & conditions for erection and commissioning should be furnished in detail, separatly by vendor along with offer.First filling of Oil, lubricants, coolant to be supplied by the supplier while carrying out E&C at BHEL, works.Vendor to furnish type, grade, qty of each oil, lubricants and coolant at the time of E&C.	Vendor to offer and submit details	
11.3	Leveling & anchoring system- The complete set of anchoring materials including foundation bolts nuts,washers,fixators, leveling shoes etc.for alignment and fixing of machine on the floor, Floor plates etc should be supplied .Details should be submitted.	Vendor to confirm	
11.4	Tools, test mandrels,tackels, instruments and other necessary equipments required for erection of machine shall be brought by the vendor.Necessary tools like torque,Wrench,Spanners,keys,grease,guns etc.required for operation and maintenance of the machine should also be supplied by the vendor.List of such tools should be submitted with offer.	Vendor to offer and submit details	
11.5	Portion if any of the machine,accessories and other supplied items where paint got rubbed or peeled off during transit or erection should be repainted and merged with original adjoining paint by the vendor before final acceptance.	Vendor to offer and submit details	
11.6	Successful proving of BHEL components by the supplier shall be considered as part of commissioning. All tests, as mentioned at <b>clause 13.0</b> (Machine Acceptance) shall form part of the commissioning activity.	Vendor to offer and submit details	
11.7	Commissioning tools, required for commissioning of the machine shall be brought by the supplier on returnable basis.	Vendor to offer and submit details	
12	<b>TROPICALIZATION</b>		
12.1	(a) All electrical & electronic equipment shall be tropicalized. (b) All electrical & electric control cabinets & panels should be dust and vermin proof. (c ) All electrical components in cabinets should be mounted on DIN rail. (d) All motors shall conform to India Standards.	Vendor to confirm	
12.2	<b>ENVIRONMENTAL PERFORMANCE</b> (a) Maximum noise level shall be 85 dB (A) at 1 meter away from the machine with correction factor background noise,if necessary This will be measured as per international Standards like DIN 45635-16 Supplier to demonstrate compliance to noise leves (if asked for). (b) There shall not be any emissions from the machine. All fumes etc. during machining shall be arrested by fume extraction system. (c ) There should not be any effluent from the machine.All fumes etc. In case there are any effluents from the	Vendor to confirm	
12.3	<b>SAFETY FEATURES:</b>		
12.3.1	All the rotating parts used in machine should statically and dynamically balance to avoid undue vibrations and noise.	Vendor to confirm	
12.3.2	Emergency switches at suitable locations should be provided.	Vendor to confirm and submit details	
12.3.3	The machine should be equipped with automatic overload protection.	Vendor to confirm	
12.3.4	Adequate protection for all moving and rotating parts to be ensured.	Vendor to confirm and submit details	
13.0	<b>MACHINE ACCEPTANCE</b>		
13.1	Tests/Activities to be carried out at supplier's works on the machine before dispatch & during Commissioning at BHEL :	Should be accepted & confirmed by Vendor	
13.2	Geometrical Accuracy Tests as per test chart in accordance with applicable ISO/DIN/equivalent applicable standard	Vendor to confirm	
13.3	The machine should be tested for continuous running of 48 hrs. If any break down occurs during this test, the test should be repeated for 48 hrs from that time.	Vendor to confirm	
13.4	Demonstration of all features of the machine,control system, all supplied attachments & accessories to their full capacity and to the satisfaction of BHEL for their efficient and effective use.	Vendor to confirm	
13.5	Machining of 30 nos test piece. Vendor to arrange toolings for it's machining.	Vendor to confirm	
13.6	Full load test to demonstrate the maximum power & machining capacity of the machine.	Vendor to confirm	
13.7	The machine should have the provision for proper Job alignment system for clamping and cutting operation.	Vendor to confirm and submit details	
13.8	Job prove out-After successful erection and commissioning at BHEL Hardwar,supplier shall carry out field testing as per specified accuracy to prove the system i.e. capacity for both round and square cut will have to be tried, The total number of pieces to be cut will be mutually discussed .The supplier shall prove to BHEL,CFFP to cut 30 nos pieces of the material.	Vendor to confirm	
13.9	Two weeks(6 working days) supervision of independent operation of machine by BHEL after job proveout at BHEL.	Vendor to confirm	

Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	BHEL REMARK	VENDOR REPLY.
13.10	Training of BHEL machine operators in operation of complete machine & accessories etc by the supplier's experts/ engineers during their stay at BHEL works	Vendor to confirm	
13.11	Original manufacture's test certificates are required alongwith despatch documents.	Vendor to confirm	
14	<b>Training</b> : BHEL personnel(4 nos) shall be trained at Venders works(for 2 weeks) in the field of operation of machine and other supplied equipments, mechanical & hydraulic maintenance, electrical and electronic maintenance .	Vendor to confirm	
14.1	<b>Pre-dispatch inspection:</b> CFFP/BHEL reserves the right to pre inspect the machine and supplied attachments & accessories at vendor's premises before despatch. BHEL personnel will do pre-despatch inspection(cl no-13.0) by witnessing accuracies,verification of all machine function and cutting of minimum size job, for which material is to be arranged by vendor.Dispatch clearance will be given after full satisfaction by BHEL.	Vendor to confirm	
15	<b>FOUNDATION</b>		
15.1	Vendor shall submit the preliminary layout drawing for getting BHEL's approval within 2 months from the date of Letter of Intent / P.O., which ever is earlier. BHEL shall approve the drgs. within 4-6 weeks from the date of receipt of drawings at BHEL. Final layout, Complete Foundation Design, Construction drg. including Static/ Dynamic load details, all dimensions and sections of drg., all pocket details for bolts, grade of concrete etc. should be submitted by the supplier within 3 months after getting BHEL's approval. The Drgs. shall consists of all requirements w.r.t. complete machine and all accessories, including space requirement for Voltage Stabiliser if any, Chip Bin, etc. BHEL shall construct complete foundation for the machine under supervision of supplier and at supplier's responsibility. Vendor should arrange equipment required for the testing of foundation, if required. The vendor shall also indicate detailed specifications of grouting compound and grouting procedure etc. for grouting of foundation bolts of the machine and requirement of any specific treatment to the foundation.	Vendor to confirm	

Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	BHEL REMARK	VENDOR REPLY.
15.2	Dynamic soil parameters are as follows: (i) Cu = 4.937 kg/cm <sup>3</sup> ( for block size of 1.5mx1mx1m) For foundation size of 10m <sup>2</sup> or more, Cu = 1.667 kg/cm <sup>2</sup> (ii) C $\Phi$ = 9.70 kg/cm <sup>3</sup> (iii) C $\Psi$ = 4.20 kg/cm <sup>3</sup> Bearing Capacity: Depth : 5 M From Shear consideration : 39 T/M SQ. Fom Settelement consideration : 9-10 T/M SQ. Recommended B.Capacity : 9 T/M SQ.	For vendor's information.	
16	<b>AMBIENT CONDITIONS &amp; THERMAL STABILITY :</b>		
16.1	Total machine should work trouble free and efficiently under following operating conditions and should give specified accuracies. Ambient Conditions: Temperature = 0 to 50 degree celsius Relative Humidity = 95% max. (Vendor to confirm that machine is suitable for above and details of provisions made in the machine for the same.)	Vendor to confirm & submit the detail	
16.2	Weather conditions are tropical, Atmosphere may be dust laden during some part of the year. Machine shall be kept in the normal shop floor condition. Max. temperature variation is up to 20 deg Celsius in 24 hours. (Vendor to confirm that machine is suitable for above and details of provisions on the machine for the same are to be furnished by Vendor)	Vendor to accept & confirm	
16.3	Thermal Stability of the complete machine keeping in view specified Ambient Conditions and accuracy requirements of BHEL components and trouble free operation of the machine should be ensured by vendor. (Vendor to confirm that machine is suitable for above and details of provisions on the machine for the same should be furnished by Vendor)	Vendor to accept & confirm	
16.4	The machine, including attachments and accessories, should be suitable for 24 hrs. continuous operation to its full capacity for 24 hour a day and 7 days a week throughout. Vendor to ensure and confirm the same.	Vendor to accept & confirm	
17	<b>PACKING</b>		
17.1	Sea worthy & rigid packing for all items of complete machine, all Accessoies and other supplied items to avoid any damage/loss in transit. When machine is dispatched in containers, all small loose items shall be suitably packed in boxes. All items in the boxes should be properly fixed to avoid movement/shifting	Vendor to confirm	
18	<b>Guarantee :</b> The supplier shall provide full and complete guarantee for trouble free performance for at least two years from the date of commissioning.Any spare required during gaurantee period shall have to be arranged by the vendor free of cost any duty level ( if any) has to be borne by the vendor. If instrument remians out of order during this period, gaurantee period will stand extended for the corresponding period. If any manufacturing defect is noted during gaurantee period, it will be rectified free of cost even after completion of gaurantee period.	Vendor to confirm	
19	<b>Qualifying Criteria :</b>		
19.1	Only those vendors should quote, who have supplied & commissioned at least two no of Band Saw of same or higher sized(350 mm) with respect to capacity and power indicated, in the last three years in any public enterprises and such machine (s) is (are) presently working satisfactory for more than one year after commissioning. However if such machine (s) has/had been supplied to BHEL,then such machine should be presenly working satisfactorily for more than six months after its commissioning and acceptance in BHEL. The following information should be submitted by the vendor about the companies where similar machine have been supplied. This is required for all the vendors for qualification of their offer.	vendor to accept & confirm	
	(a) Name of the customers/ company,where such machine (s) is /are installed.	vendor to inform	
	(b) Complete postal address of the customer.	vendor to inform	
	( c) Year of commissioning .	vendor to inform	
	(d) Application for which the machine is supplied.	vendor to inform	
	(e) Name ,designation, phone,fax no, Email of the contact person of the customer.	vendor to inform	
	(f) Performance certificate from the customer regarding satisfactory performance of the machine supplied to them.	vendor to submit	
19.2	BHEL reserves the right to verify the information submitted by the vendor at its premises or customer's premises.	Vendor to accept and confirm	