



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 7771  
Fax : +91 431 252 0719  
Email : [rpmuthu@bheltry.co.in](mailto:rpmuthu@bheltry.co.in)  
Web : [www.bhel.com](http://www.bhel.com)

#### TWO PART BID

Tender to be submitted in two parts.

Enquiry  
Number:

**2631000068**

Enquiry  
Date:

**24.07.2010**

Due date for submission  
of quotation:

**24.08.2010**

You are requested to quote the Enquiry number, date and due date in all your correspondences. 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	<b>BAND SAW</b> as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	<b>1 No.</b>

#### Important points to be taken care during submission of offer

1. Checklist to be duly filled and enclosed along with your offer, failing which the offer will not be considered for evaluation.

BHEL's General guidelines / instructions 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 "2631000068".

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

Dy.Manager / MM / Capital Equipment



**ENQUIRY**  
(INDIGENOUS)

# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE : 2577771  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: rpmuthu@bheltry.co.in  
Web:

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429-002/A

Enquiry No	Enquiry Date	Due Date for Quotation
2631000068	24.07.2010	24.08.2010
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order		

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	BAND SAW for Bar Stock Stores-W37 in Valves dept.(Specification Enclosed) BAND SAW	NO	1.000	1.00	30.04.11

## General Note:

### COMMERCIAL TERMS AND CONDITIONS

Bhel commercial terms & conditions with Price Bid and Bank Guarantee formats along with technical specifications can be download 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 "2631000068"

### 1.,QUOTATIONS

The Bidders shall submit the offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.

Envelope I This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Envelope II This sealed envelope should contain price details. This envelope should be clearly marked "Part II - Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Both the envelopes ( Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.

The above offer should reach this office on or before the due date by 14.00 Hrs (IST).Late offers will not be considered.

### 2. POINT TO POINT CONFIRMATION TO BHEL'S SPECIFICATION AND COMMERCIAL TERMS AND CONDITIONS SHOULD BE PROVIDED IN THE ENCLOSED SHEET.

The offers should reach us before the time of opening of tenders.  
The offers will be opened at 14:30 hours on the due date in the presence of the tenderers who may like to be present.  
Late tenders are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

**R. PACHAMUTHU**

MANAGER PURCHASE  
MIM / FOSSIL EQUIPMENT

BHEL, TRICHY - 620 014.



# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

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PHONE : 2577771  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: rpmuthu@bheltry.co.in  
Web:

2631000068 / 24.07.2010

3. DETAILED CATALOGUE AND DRAWINGS SHOULD BE SENT ALONG WITH YOUR TECHNICAL OFFER.

Enclosures:

"LD clause has to be confirmed without fail."

"Payment to vendors will be made only thro E-Payment mode"

The offers should reach us before the time of opening of tenders.  
The offers will be opened at 14:30 hours on the due date in the presence of the tenderers who may like to be present.  
Late tenders are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

*mud*  
**R. PACHAMUTHU**  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
MM / Capital Equipment  
THIRUCHIRAPALLI - 620 014.

**PART A.****SECTION – I : COMPANY PROFILE**

The BIDDER is requested to provide details listed in the table given below :

<b>S.No.</b>	<b>PARTICULARS</b>	<b>VENDOR's RESPONSE</b>
<b>1.0</b>	Number of Years of Experience of the BIDDER (Original Equipment Manufacturer) in the field of Design, Manufacture, Supply and Commissioning of Double Column Bandsaw Machines.	
<b>2.0</b>	Number of Double Column Bandsaw Machines supplied and installed till date in the following category (based on CAPACITY ) with details on customers	
<b>3.0</b>	Details on Standards or Codes followed in the Design of Bandsaw Machine	
<b>4.0</b>	Details of Manufacturing Facilities : a) Fabrication Facilities b) Heat Treatment Facilities c) Machining/Grinding Facilities d) Assembly & Testing Facilities	
<b>5.0</b>	Details of Quality System (with Stages of Internal Inspection) followed for the Fabrication / Machining and Testing of Bandsaws	
<b>6.0</b>	Details on AFTER-SALES-SERVICE Set-Up in INDIA for providing timely service support to BHEL	

**SECTION – II : QUALIFYING CRITERIA**

The BIDDER has to meet the following requirements to get qualified for submitting an offer for the BANDSAW :

[Additional Sheets shall be attached with the OFFER, to provide requisite details]

<b>S.No.</b>	<b>REQUIREMENTS</b>	<b>VENDOR's RESPONSE</b>
<b>7.0</b>	Only those BIDDERS (Original Equipment Manufacturer), who have supplied and commissioned at least One Double Column Bandsaw with Cutting Capacity 300 mm and above (suitable for either square or circular shaped solid jobs in steel) shall quote.	

<b>S.No.</b>	<b>REQUIREMENTS</b>	<b>VENDOR's RESPONSE</b>
<b>8.0</b>	The Bandsaw Machine supplied under <b>Clause No. 7.0</b> , should presently be working satisfactorily for more than one year after commissioning. However, if such a Bandsaw has/had been supplied to BHEL, then such machine should be presently working satisfactorily since its commissioning and acceptance in BHEL. The following information should be submitted by the BIDDER about the companies where similar machines have been supplied.	
<b>9.0</b>	Name of the Customer / Company where the machine is installed.	
<b>10.0</b>	Complete Postal Address of the Customer.	
<b>11.0</b>	Year of Commissioning.	
<b>12.0</b>	Parameters of Machine(s) supplied and application for which the machine is supplied.	
<b>13.0</b>	Name and designation of the contact person of the Customer.	
<b>14.0</b>	Phone No., FAX No. and e-mail address of the contact person of the Customer.	
<b>15.0</b>	Performance certificate from the customers regarding satisfactory performance of BANDSAW Machine supplied to them (Original Certificate or Through E-mail directly from the customer) in the FORMAT given in <b>SECTION - IV</b> . The original performance certificate may be returned after verification by BHEL, if required by the vendor.	

**SECTION – III : BID / OFFER FORMAT**

The BIDDER has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser :

<b>S.No.</b>	<b>REQUIREMENTS</b>
<b>16.0</b>	The BIDDER shall submit the offer in TWO PARTS - Technical [ <b>with PART A &amp; PART B</b> ] & Commercial and Price Bid.
<b>17.0</b>	The OFFER shall contain a comparative statement of Technical Specifications given by BHEL and the Offer Details submitted by the Bidder, against each Clause. A just 'YES' or 'CONFIRMED' or 'NO-DEVIATION' or 'COMPLIES' or 'ACCEPTED' or similar words in the technical comparative statement may lead to disqualification of the Technical Offer.
<b>18.0</b>	The Technical Offer shall be supported by Product Catalogue and Data Sheets in ORIGINAL and complete technical details of 'Bought-Out-Items' with copies of Product Catalogue
<b>19.0</b>	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 of the inclusion of all the accessories, tooling, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.
<b>20.0</b>	Earlier performance and field experience (service support) with BHEL (if any) will be a reckoning factor for the technical qualification of the OFFER.

**SECTION – IV : PERFORMANCE CERTIFICATE**

**PERFORMANCE CERTIFICATE – [SAMPLE FORMAT]**

(On Customer's Letter Head)

1. Supplier of the Equipment/Machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which Machine is used :
5.
  - a. Equipment Serial Number :
  - b. Cutting Capacity of Bandsaw :
  - c. Power of Bandsaw Drive Motor in HP/kW :
  - d. Cutting Speed Range :
  - e. Length of Jobs / Components before Cutting :
6. Performance of the Machine : Satisfactory /  
Good /  
Average /  
Not Satisfactory
7. Feed-Back on 'After Sales Service' from Supplier :
8. Remarks / Reasons for Recommendation :

Date:

Signature & Seal of the Authority  
Issuing the Performance Certificate

**PART B****TECHNICAL SPECIFICATIONS for  
BAND-SAW with HANDLING FACILITY****1.0 PURPOSE / APPLICATION :**

The equipment is intended for sizing of tube bundles, forged and rolled bars in square-cut condition into small and varying lengths. The number of pieces per batch vary from single digit to few tens. A in-feed and cut-bit discharge (material handling facility) roller conveyor also shall form part of the supply.

**2.0 JOB DETAILS :**

2.1.0 Raw-material is in the form of seamless steel tubes and forged rods and hot-rolled bars in the form of bundles are also earmarked for cutting / sizing in the proposed band-saw machine .

**2.2.0 MATERIAL SPECIFICATION :**

- 2.2.1 SA 234 WPB, WPC, WP 12 and WP 22  
(As per ASTM Standards for hot-formed & normalised forgings)
- 2.2.2 SA 105, SA 106 Gr.B/Gr.C, SA 210 Gr.A1
- 2.2.3 SA 182 F22, SA 182 F6 cl3, SA 213 T11/T22/T91  
SA 335 Gr.P22
- 2.2.4 SA 240 TP 304, SA 312 TP 304, SA 312 TP 316  
(Sl. No. 2.2.2 to 2.2.4 As per ASTM Standards)
- 2.2.5 OHTARON
- 2.2.6 As per Russian GOST Standards : 12 X 1M $\phi$  / Steel
- 2.2.7 As per DIN Standards : X 20CrMoV12.1, 14MoV6.3,  
15NiCuMoNb5

**2.3.0 MATERIAL SIZES :**

- 2.3.1 Job Diameter Range  
(for Circular Jobs) : 25.4 mm to 300 mm
- 2.3.2 Wall Thickness Range  
(for tubes) : 4.0 mm to 22 mm



2.3.3	Size of Tube Bundles	:	500 mm x 500 mm
	Tube Diameter Range	:	31.8 mm to 127 mm
2.3.4	Size of Rod Bundles	:	400 mm x 300 mm
	Rod Diameter Range	:	25.4 mm to 300 mm
2.3.5	Minimum Job Length (at In-feed side)	:	1,000 mm
2.3.6	Job with Maximum Length (Infeed)	:	12,000 mm
2.3.7	Job with Maximum Weight	:	5,000 kgs.

### 3.0 MACHINE SPECIFICATIONS :

The offered equipment shall be a high production semi-automatic stock feed band-saw designed and built to the highest standards of quality and performance. The in-feed unit shall be powered stock feed system and have to automatically feed long work-pieces weighing upto 5,000 kgs. (5 MT).

The in-feed and out-feed (discharge) conveyor length have to be extended by adding Dead Roller Table to the Powered Tables on either side.

Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER
3.1.0	<b>BANDSAW MACHINE :</b>		
3.1.1	Type	Horizontal Cut-Off Bandsaw	
3.1.2	Cutting Capacity at 90 ° - SOLID	300 mm (	
3.1.3	Cutting Saw Speed Range	15 to 100 mtrs./min. (steplessly adjustable)	
3.1.4	Cutting Accuracy	Allowable Limit - Taper 0.1 mm for $\phi$ 300 mm	
3.1.5	Band Saw Drive Motor Power	Bidder to Specify <b>(Not to be less than 15 kW) - Bidder to give power calculations .</b>	
3.1.6	Band Saw Dimensions	Bidder to Specify	
3.1.7	Band Wheel Diameter	Bidder to Specify	
3.1.8	(Flood) Coolant Flow Rate	Around 15 to 30 lits. /min. at 3 Bar delivery pressure	
3.1.9	Coolant Pump Motor Capacity	Bidder to Specify	
3.1.10	Coolant Tank Capacity & Dimensions	Bidder to Specify	
3.1.11	Hydraulic Motor Capacity	Bidder to Specify	
3.1.12	Hydraulic Oil Tank Capacity	Bidder to Specify	
Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER

3.1.13	Oil Cooler for Hydraulic Oil [BHEL preferred make is ADVANCE COOLING or any other reputed make, acceptable to BHEL]	Bidder to quote for an Oil Chiller of suitable rating, to always maintain the Oil Temperature in the Oil Tank , below 45 Deg. C.	Bidder to give technical details of the Oil Chiller with the Technical Offer
3.1.14	Total Power requirement in kVA	Bidder to Specify	
<b>3.2.0</b>	<b>WORK HOLDING DEVICE :</b>		
3.2.1	Work Holding Type	Right Angle & Hydraulically Clamped	
3.2.2	Infeed System	Powered	
3.2.3	Infeed Conveyor Length - Powered	4000 mm (minimum)	
3.2.4	Dead Roller Table (connected to powered infeed table)	In segments of 2000 mm	
3.2.5	Number of Dead Roller Table for infeed side extension	Minimum 4 Nos.	
3.2.6	Discharge Conveyor Length	3000 mm – Powered	
3.2.7	Dead Roller Out-feed Table	In segments of 2000 mm	
3.2.8	Number of Dead Roller Table for outfeed side extension	Minimum 3 Nos.	
3.2.9	Cut-Length Setting Range	100 mm to 6,000 mm	
3.2.10	Feed Stroke in Single Mode	Around 500 mm	
3.2.13	Speed and Feed Setting.	Bidder to provide a CHART showing the recommended speed & feed for the bandsaw, for each type of material listed under Clause No. 2.2.0	
<b>3.3.0</b>	<b>DESIGN &amp; CONSTRUCTIONAL FEATURES :</b>		
3.3.1	Double column, horizontal feed frame, guidance by two large-section solid chromium plated columns and maintenance free sleeve bearings	Bidder to give details	
3.3.2	Sturdy Base / Heavy Bed to provide rigid base to bandsaw machine parts/components	Bidder to give details	
3.3.3	Inclined band travel feature. designed to shorten the effective cutting length	Bidder to give details	
3.3.4	Mechanism and arrangement for accurate band/blade guidance	Bidder to give details	
3.3.5	Automatic hydraulic band tension, monitored electrically, to ensure correct band tension with system for automatic switch-off of drive	Bidder to give details	

Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER
3.3.6	Guide arm setting is to be synchronised with the adjustment of the movable vice jaw	Bidder to give details	
3.3.7	Provision to protect the saw band from overloading.	Bidder to give details	
3.3.8	Work height selector to allow raising of the band, to just clear the material stock	Bidder to give details	
3.3.9	Central guide to provide a third guide to stabilise the band at the start of the cut	Bidder to give details [minimum time to be taken for start of the cutting operation]	
3.3.10	An electric motor driven brush on either side of the blade for blade cleaning (to remove the chips from the gullets of the blade teeth)	Bidder to give details	
3.3.11	Automatic load controlled feed regulation to provide constant cutting force	Bidder to give details	
3.3.12	Bandsaw Feed to stop automatically once the saw band stops	Bidder to give details	
3.3.13	Flood coolant system through an electrically driven pump. Separate pump units for flood coolant and flushing of chips preferred. Chip cleaning gun for flushing to be provided.	Bidder to give details. [Coolant collection tank should not be integral part of the machine. It should be separated from the machine base and kept adjacent to chip collection bin.]	
3.3.14	The Fixed Discharge Tables shall also have the arrangement for collection of spill-over coolant (flowing from pipes/jobs) during the cutting and return to main coolant collection tank.	Bidder to give details, elaborating the features	
3.3.17	The method of changing the saw band/blade should be easy and quick.	Bidder to give details	
3.3.18	The equipment shall have a centralised Operator Control Panel so that all cutting parameters can be set from one position.	Bidder to give details	
3.3.19	Saw frame lift and lowering with safety switch	Bidder to give details	
3.3.20	Solid state circuitry for control panel	Bidder to give details	

Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER
3.3.21	The equipment shall have a centralised control for setting the parameters from both Operator panel as well as on main panel.	Bidder to give details	
3.3.22	Indicators on the Main Machine Panel to display the blade speed & the blade cutting force , Clamping pressure etc.,	Bidder to give details	
3.3.23	A fluorescent machine lamp with protective cover to be provided for cutting area visibility.	Bidder to give details	
3.3.24	Replaceable Carbide strips for band guide combined with alignment rollers to provide lasting accurate band guidance.	Bidder to give details	
3.3.25	Quick change from automatic batch cutting to single cut operation.	Bidder to give details	
3.3.26	Hydraulic double vice for simultaneous clamping on both sides of the saw band operated by hydraulic cylinders with regulated clamping pressure	Bidder to give details	
3.3.27	The hydraulic hold-downs are to be provided as additional top clamping for cutting Tubes / Bars in bundle,	Bidder to give details	
3.3.28	Manual control of shuttle Vice for moving work piece during set-up operations.	Bidder to give details	
3.3.29	Shuttle vice has to clamp and unclamp in sequence with machine vice. The clamping pressure has to be adjustable with respect to the wall thickness of the pipe material.	Bidder to give details [The OFFER shall also include a CHART giving the Clamp Pressure against various sizes of Pipes given under <b>Clause No. 2.3.0</b> ]	
3.3.30	The face plates of all the vices are to be of replaceable wear plates.	Bidder to give details [The Hardness of all Wear Plates should be around 60 HRC].	
3.3.31	The Dead Roller Table provided on both Infeed & Outfeed Sides shall be interchangeable	Bidder to give details	
3.3.32	The Pitch of the rollers provided in the Roller Table shall be close enough to hold minimum size of the job pieces cut off.	Bidder to give details	

Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER
3.3.33	Material Specifications & Details	Bidder to give Bill of Materials for Roller Stands (including Infeed, Outfeed and Dead Rollers like Diameter, Thickness of Roller Pipes, Diameter of Shaft, Dimensions of Roller Stand Structure, Size of Plummer Blocks, etc.)	
3.3.34	List of band saw blades to suit the various sizes (diameter and thickness) of the job, shall be indicated through a chart.	Bidder to give details	
3.3.35	Lifting Hooks	Details on the provision of Lifting Hooks (by EOT Cranes) for the Main Machine Unit and Sub-Assemblies	
<b>3.4.0</b>	<b>SAFETY FEATURES :</b>		
3.4.1	To stop the machine immediately, if the saw blade breaks or any slip during operation, due to jamming of blade into the work-piece.	Bidder to give details	
3.4.2	The machine is to be equipped with saw blade safety covers, which covers the blade except for the actual cutting area.	Bidder to give details	
3.4.3	A safety interlock to stop the machine automatically if a wheel cover is opened during operation	Bidder to give details	
3.4.4	Saw frame lift and lowering with safety limit switch	Bidder to give details	
3.4.5	For operator safety the machine vice control is to be interlocked with blade drive system (i.e, blade drive will not operate unless machine vice is clamped).	Bidder to give details	
<b>3.5.0</b>	<b>OPTIONAL ACCESSORIES:</b>		
3.5.1	Electric piece counter with display unit	Bidder to give details	
3.5.2	Chip Conveyor System with Disposal Bucket	Bidder to give details [to include screw conveyor with drive, chip collection bin with wheels and lifting hooks, suitable metallic filter mesh to be provided for separating chips and to prevent carrying over to coolant tank.]	
3.5.3	Cutting Depth Control Unit: To stop the machine automatically as soon as the blade reaches the required depth of cutting	Bidder to give details	
3.5.4	Overload Indicator :- to indicate the overloading applied to the bandsaw blade	Bidder to give details	

Sl.No.	PARAMETERS	SPECIFICATIONS	OFFER
3.5.5	Blade Run-Out Detector : - To stop the machine automatically when the cutting goes taper (i.e., deviation of cutting from vertical direction).	Bidder to give details	
3.5.6	Remote Control Unit with 10 mtr. Long interconnecting cable provided with protective sheath, connected to the machine main panel for machine operations.	Bidder to give details	
3.5.7	Additional Optional Accessories which enhance the productivity of the machine to be described by the Bidder with the offer	Bidder to give details	
<b>4.1.0 ELECTRICAL :</b>			
4.1.1	415V + 10% / -10%, 50HZ +/-1.5 HZ, 3 Phase AC (3 wire system with out 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, shall be the responsibility of vendor.		
4.1.2	All electrical equipment shall be Tropicalized and shall have IP 54 degree of protection		
4.1.3	All electrical control cabinets & panels should be dust and vermin proof		
4.1.4	All electrical components in the cabinets should be mounted on DIN Rail		
4.1.5	All electrical panels should be provided with CFL lamps for sufficient illumination and electric power receptacles of 220 Volts, 5/15 Amp. AC. All adapters/receptacles should have compatibility with Indian equivalents.		
4.1.6	Motors shall be from M/s Siemens / ABB or other reputed make conforming to IEC and acceptable to BHEL		
4.1.7	All electrics shall be of reputed make like Siemens,L&T,BCH,Tele-mechanique.		
4.1.8	Electrical drives shall be of Siemens / ABB / L&T / Danfoss / Eurotherm and PLC of SEW / Allen Bradley / Siemens / Messung		
4.1.9	All components / devices / terminals are to be incorporated with ferrules.		
4.1.10	All cables moving with traversing axes should be installed in metallic cable drag chain. Additionally, all the cable trays required for laying of cables should be included in the offer.		
4.1.11	Vendor should ensure the proper earthing for the machine and its accessories.		

Sl. No.	DESCRIPTION	OFFER
<b>4.2.0</b>	<b>HYDRAULICS &amp; LUBRICATION</b>	
4.2.1	Centralized Automatic Lubricating System to be provided with metallic tubings.	
4.2.2	All hydraulic elements used shall be of standard ones and shall be of Vickers / Rexroth or any other reputed make acceptable to BHEL.	
4.2.3	All hydraulic operating components to be mounted on the manifold in a centralised place on the hydraulic power pack and the POWER-PACK shall not be integral with the Machine Body..	
4.2.4	All Hydraulic hoses shall be preferably from GATES, MARKWELL, INSAFLEX, Parker Hannifin or other reputed make acceptable to BHEL	
4.2.5	Hydraulic circuits shall be designed with minimum number of control valves and to suit oil of ISO VG 46 or 68 only. Also MINIMESS checkpoints to be provided wherever pressure is required to be read for setting and troubleshooting.	
4.2.6	The Oil-Cooler (Heat Exchanger) shall be of Air-Cooled Radiator Type, to keep the oil temperature always below 50 Deg. C.	
4.2.7	All hydraulic solenoid valves shall be with LED indicator and suitable for 24 V DC electric supply	
4.2.8	The equipment has to be guaranteed for its performance and also of the sub-assemblies / bought-out items, for a minimum period of 24 months from the date of commissioning at BHEL Works.	
<b>4.3.0</b>	<b>ENVIRONMENTAL PERFORMANCE OF THE MACHINE:</b> [The Machine shall conform to following factors related to environment]	
4.3.1	Maximum noise level shall be 85 dB (A) at normal load condition, 1 M away from the machine with correction factor for back ground noise, if necessary. This will be measured as per international standards like DIN 45635-16. Vendor to demonstrate compliance to noise level, if so required.	
4.3.1	The machine shall be suitable for an ambient temperature of +45 ° C and relative humidity of 95 % respectively, but both do not occur simultaneously.	
4.3.2	If any safety / environmental protection enclosure is required it shall be built in the machine by the vendor.	
4.3.3	Paint of the machine should be oil / coolant resistant and should not peel off and mix up with coolant. Painting shall be of two coats of SYNTHETIC ENAMEL GLOSSY FINISH APPLE GREEN PAINT . AS PER IS 5/1994.Shade :(ISC)NO-281..	
<b>4.4.0</b>	<b>LEVELLING &amp; ANCHORING SYSTEM</b>	
4.4.1	Complete anchoring system including foundation bolts, anchoring materials, fixtures, leveling shoes etc shall be supplied for the Machine etc.	
4.4.2	Bidder to provide details on the machine foundation and possibly the tentative foundation drawing to be given with the TECHNICAL OFFER.	
<b>4.5.0</b>	<b>TOOLS FOR ERECTION, OPERATION &amp; MAINTENANCE</b>	
4.5.1	The vendor shall bring special tools & equipment and one set of machine manual, required for erection of the machine. Necessary tools like Torque Wrench, Spanners, Keys, Grease Guns etc. for Operation & Maintenance of the machine should be supplied. List of such tools shall be submitted with offer	

Sl. No.	DESCRIPTION	OFFER
5.0	<b>MACHINE SPARES :</b>	
5.1.0	Itemised break-up of mechanical, hydraulic, electrical spares used on the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following, in addition to other recommended spares: <b>(Unit Price of each item of spare shall be offered)</b>	
5.2.0	Mechanical & Hydraulic Spares: Bearings, clutches, gears and all types of pumps, Valves, pressure switches / transducers, filters, seals, O rings, Hydraulic Hoses, etc.	
5.3.0	Electrical: All types of Relays, Contactors, Proximity Switches, Push Buttons, Indicating Lamps, Semiconductor Fuses, Special Fuses, Circuit Breakers, Main Power Switch, PLC, etc.	
5.4.0	All types of spares for total machine and accessories should be available for at least ten years after supply of the machine. If machine or control is likely to become obsolete in this period, the vendor should inform BHEL sufficiently in advance and provide drawings of parts / details of spares & Vendors to enable BHEL to procure these in advance, if required.	
5.5.0	Vendor to confirm that complete list of spares for machine and accessories, along with specification / type / model, and name & address of the spare Vendor shall be furnished along with documentation to be supplied with the machine.	
6.0	<b>INSPECTION &amp; MACHINE ACCEPTANCE :</b>	
6.1.0	The Machine shall be offered for inspection and performance prove-out trials, for the design capabilities of the machine, at Vendor's Works by BHEL Engineers, before dispatch.	
6.2.0	The Bidder shall train BHEL Personnel in Operation and Maintenance (Mechanical and Electrical / Electronics) of the Machine at Vendor's works. The prove-out trials (at Vendor's Works and at BHEL Works) shall be from among job materials and sizes indicated in Clause 2.0 above.	
6.3.0	The Bidder shall depute his engineer(s) - who are capable of understanding English language and effective communicating ability - for supervising the erection and commissioning of the machine at BHEL Works. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by BIDDER in their layout drawings.	
7.0	<b>DOCUMENTATION :</b>	
7.1.0	THREE sets of following documents (Hard copies) in English language should be supplied along with the machine	
7.1.1	Detailed Operation and Maintenance manual of machine with all drawings of machine assemblies / sub-assemblies / parts including Electrical / Pneumatic/ Coolant / Hydraulic circuit diagrams. All Assembly/ Sub Assembly Drawings shall be supplied with the part list with component specification / BOM also. Component drawings for all wearing parts to be provided.	
7.1.2	Catalogues, O&M Manuals and drawings of all bought out items, bearings wherever applicable.	



Sl. No.	DESCRIPTION	OFFER
7.1.3	Electronic and electrical interconnecting drawings (i.e. Between machine, control panel and drives). Hard Copy in Original : 3 Nos.	
7.1.4	Hydraulic, coolant, lubrication and Electrical circuits with Bill Of Materials	
7.2.0	Detailed specification of all rubber items and hydraulic/lube fittings Hyd. Cylinder seals 'O' ring and Hyd. Hose dimension are to be given. Manual should have all bearing details.	
7.3.0	The vendor shall submit complete Master List of parts used in the machine.	
7.4.0	One additional set of all the above documentation on CD ROM, wherever possible.	
8.0	<b>FOUNDATION :</b>	
8.1.0	BHEL shall construct complete foundation for the machine. Vendor shall furnish the foundation details.	
9.0	<b>SCOPE OF SUPPLY:</b> <b>[The Un-Priced Commercial Offer shall contain the following details]</b>	
9.1.0	Basic Band-saw Machine with Standard Accessories	
9.2.0	Hydraulic Power Pack and Connected Circuitry with Tank	
9.3.0	Electrically run Flood Coolant Circulation System and Tank	
9.4.0	Complete Set of Work Holding Devices suitable for the listed sizes of Pipes given under <b>Clause No. 2.3.0</b>	
9.5.0	Remote Control & Optional Accessories as recommended by the Bidder	
9.6.0	Inter-connecting Cables (with Plug-In connectors) and Hoses (with Quick-Fix couplings)	
9.7.0	Complete range of Band-saw Blades in packs of five numbers for the sizes of jobs specified	
9.8.0	Complete set of Spares for Mechanical, Hydraulic, Electric and Electronic elements as per <b>Clause 5.0</b>	
9.9.0	Set of Operating and Maintenance Tools	
9.10.0	Inspection and Performance Prove-Out at Vendor's Works	
9.11.0	Training in Operation & Maintenance of the total system for BHEL Personnel	
9.12.0	Complete set of Documents as per <b>Clause 7.0</b>	
9.13.0	Erection & Commissioning at BHEL Works and Machine Prove-out Trials for various sizes of jobs	

## GENERAL TERMS AND CONDITIONS OF RA

- 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.
- For the proposed RA, technically and commercially acceptable bidders only shall be eligible to participate.
- In case of RA, BHEL will engage the services of a service provider for conduct of the RA who will provide all necessary training and assistance to the bidders before commencement of on line bidding on internet.
- Business rules governing the RA will be communicated to the bidders through service provider for compliance.
- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of RA. Without the compliance, the vendor will not be eligible to participate in the event.
- BHEL will provide a sample calculation sheet (in EXCEL format) which would help the bidders to arrive at “Net Cash outflow to BHEL” considering various price / cost elements like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) etc. for each of the bidders to enable them to arrive at “Net Cash outflow to BHEL” which is the amount the bidder would be bidding during the RA.
- RA will be conducted on scheduled date & time and at the end of event, the lowest bidder value will be known on the network.
- The lowest bidder has to Fax the duly signed “Price Break-up” in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- 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 further business with BHEL, as per the prevailing procedure.
- BHEL reserves the right to negotiate if need be, with the “L1” vendor of the Reverse Auction

<b>BHEL Commercial Terms and Conditions for INDIGENOUS SUPPLIES</b>	<b>Vendor's Confirmation / Comments ( To be furnished along with offer copy ( or ) Technical Bid Copy ( Part No - I )</b>
Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	
<b>Prices</b> shall be <b>quoted item wise</b> only as per the model format enclosed.	
Prices shall be quoted on <b>"FIRM PRICE"</b> basis only. The prices should be only on F.O.R / Despatching station basis inclusive of Packing & Forwarding charges if any. Applicable percentage of ED & Sales Tax (VAT) should be clearly indicated.	
<b>Validity of offer</b> shall be for a minimum period of 120 days from the date of Tender opening	
<b>Delivery period</b> from the date of Letter of Intent shall be clearly mentioned in the offer.	
<b>Liquidated damages</b> @ ½% per week subject to a maximum of 15% of the order value shall be applicable for delay in deliveries.	
<b>Following Risk Purchase clause</b> shall be applicable: The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
<b>Submission of Performance Bank Guarantee (PBG):</b> Vendor should provide a performance bank guarantee(PBG) for 10% of the total Purchase order value valid for a period of 12 months from the date of commissioning (or) 18 months from the date of dispatch whichever is later with an additional claim period of 2 months. This PBG shall form one of the documents for effecting payment. The PBG shall be submitted in non-judicial stamp paper value of not less than Rs.80/- issued by any one of the following banks who is a member bank in our consortium of banks. <b>1) State Bank of India, 2) State Bank of Hyderabad, 3) State Bank of Travancore, 4) State Bank of Mysore, 5) Canara bank, 6) Bank of Baroda, 7) Punjab National bank, 8) Deutsche Bank, 9) HDFC Bank, 10) Standard Chartered Bank, 11) Citi Bank, 12) Standard Chartered Grindlays Bank 13) Bank of America and 14) Any one of the Nationalised banks.</b>	
<b>Payment terms for supply portion:</b> <ul style="list-style-type: none"> <li>• <b>100%</b> payment will be made within 45 to 90 days after receipt and acceptance / commissioning of goods at BHEL. against submission of PBG for 10% of Order value with required validity. <b>(or )</b></li> <li>• <b>80%</b> value of the goods will be paid within 45 to 90 days against dispatch documents negotiated through bank. Balance 20% will be paid within 45 to 90 days from the date of commissioning / acceptance of goods against submission of supplementary invoice and also against submission of PBG for 10% of Order value with required validity. <b>All bank charges are to vendor's account only.</b></li> </ul> <b>NOTE:</b> All direct Payment of more than one lakh will be made through <b><u>E-mode Payment</u></b> . As per BHEL e-mode Format, which will be given at time of ordering along with order copy. (Original filled <b><u>E-mode payment format</u></b> is to be get it signed by the both vendor's authorized signatory and their banker's along with a copy of <b>cheque leaf / cancelled cheque</b> leaf for the respective account number and forward the original hard copy to BHEL/Trichy to process invoices for making payment, after supplies are made).	

<b>Erection / commissioning:</b> Erection / commissioning shall be done at free of cost.	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning.	
Equipment will be inspected and proved at vendor's works prior to dispatch. However final inspection and acceptance of equipment will be after installation at BHEL,Trichy.	
The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost.	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
<b>Offers</b> should be submitted only in <b>sealed cover super-scribing clearly the Enquiry reference and due date.</b>	

**NOTE:-**

- a) It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- b) Your specific acceptance to the BHEL Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Other wise your offer is liable for rejection.

Signature & Office Seal of the vendor

	<b>BHEL Enquiry No. &amp; Date</b>		<b>Vendor's Offer Ref No. &amp; Date</b>		
	<b>2631000068 &amp; DT:24-07-10</b>				
	<b>MODEL PRICE BID FORMAT FOR INDIGENOUS VENDORS</b>				
SI No.	Description	Unit	Qty	Rate in Rs	Value in Rs
1					
2					
3					
4					
5					
6					
7					
8					
	Total Ex-works Value in Rs				
	Add Packing & Forwarding Charges if extra				
	FOR- Despatching Station Value in Rs				
	% of Excise Duty ( If Extra or If inclusive)				
	% of Excise Duty ( If inclusive)				
	% Sales Tax - CST against "C" Form (If extra)				
	% Sales Tax - CST With out "C" Form (if extra)				
	% VAT (if extra)				
	% VAT (if inclusive)				
	Approximate Freight Charges in Rs				
	Approximate Transit Insurance Charges in Rs				
	Installation / Commissioning Charges in Rs.				
	<b>(If extra applicable )</b>				
	% Service Tax <b>(if extra applicable )</b>				
	<b>Consignment Package Details</b>				
	Approximate Net / Gross Weight in Kgs				
	Dimension of Consignment				
	<b>Signature &amp; Seal of Vendor</b>				
	<b>NOTE:</b>				

# **MM : CAPITAL EQUIPMENT**

**Bharat Heavy Electricals Limited, Trichirapalli – 620 014**  
(To be filled and submitted along with Offer)

**BHEL Enquiry No. 2631000068**

**Date : 24.07.2010**

<b>BHEL Commercial Terms and Conditions for IMPORT SUPPLIES</b>	<b>Vendor's Confirmation / Comments</b>
Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	To be furnished along with offer (or) Technical Bid – Part No. I
<b>Prices</b> shall be <b>quoted item wise</b> only as per the model format enclosed.	
Prices shall be quoted on <b>“FIRM PRICE”</b> basis only. The prices should be only on FOB/FCA basis inclusive of Packing & Forwarding charges if any.	
<b>Validity of offer</b> shall be for a minimum period of 120 days from the date of Tender opening	
<b>Delivery period</b> from the date of Letter of Intent shall be clearly mentioned in the offer.	
<b>Liquidated damages</b> @ ½% per week subject to a maximum of 15% of the order value shall be applicable for delay in deliveries.	
<b>Following Risk Purchase clause</b> shall be applicable: The Purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
<b>Payment terms for Foreign vendor (Principal):</b> 80% value of the goods will be paid through an irrevocable Letter of Credit established by our bankers. Balance 20% will be paid against acceptance / commissioning of goods for which supplementary invoice and PBG for 10% of total Purchase order value shall be submitted. <b>All bank charges outside India are to vendor's account only.</b>	
<b>Payment terms for Indian Agent:</b> Indian Agency commission, if any, shall be clearly specified in the offer and the same will be paid in Indian Rupees against acceptance / commissioning of the equipment.	
<b>Erection / commissioning:</b> Erection / commissioning shall be done at free of cost.	
<b>Submission of Performance Bank Guarantee (PBG):</b> Vendor should provide a performance bank guarantee(PBG) for 10% of the total Purchase order value valid for a period of 12 months from the date of commissioning (or) 18 months from the date of dispatch <b><u>whichever is later</u></b> with an additional claim period of 2 months. This PBG shall form part one of the documents for effecting the balance 20% payment.	
Part Shipment or Transshipment is not permissible	
In case of any short shipment in the main equipment / spares, where separate rates are not available in the contract, the customs duty levied on such supplies, shall be borne by the supplier / Indian agent.	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
Equipment will be inspected and proved at vendor's works prior to dispatch. However final inspection and acceptance of equipment will be after installation at BHEL, Trichy.	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning.	
The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost.	
<b>Offers</b> should be submitted only in <b>sealed cover super-scribing clearly the Enquiry reference and due date.</b>	

**NOTE:-**

- It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.**
- The prices are to be offered only on FOB/FCA basis, inclusive of Packing & Forwarding charges if any.**
- Your specific acceptance to BHEL Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Other wise your offer is liable for rejection.**

Signature & Office Seal of the vendor

	<b>BHEL Enquiry No. &amp; Date</b>		<b>Vendor's Offer Ref No. &amp; Date</b>			
	<b>2630900068 &amp; 24.07.2010</b>					
	<b>MODEL PRICE BID FORMAT FOR IMPORT VENDORS</b>					
SI No.	Description	Unit	Qty	Rate Currency	Value Currency	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
	Total Ex-works Value in currency					
	Add Packing & Forwarding Charges if extra					
	<b>OR FOB /FCA Charges if extra</b>					
	FOB / FCA Value in Currency					
	Approximate Freight Charges in Currency					
	Approximate Transit Insurance Charges in Currency					
	Installation / Commissioning Charges in Currency					
	<b>(If extra applicable )</b>					
	% Service Tax <b>(if extra applicable )</b>					
	<b>Consignment Package Details</b>					
	Approximate Net / Gross Weight in Kgs					
	Dimension of Consignment					
		<b>Signature &amp; Seal of Vendor</b>				
	<b>NOTE:</b>					
	The Price Bid should be submitted strictly in line with the above <b>FORMAT</b>					

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT AND THE EXPIRY DATE OF BG MUST BE AFTER 60 DAYS FROM THE DATE OF COMPLETION OF WARRANTY PERIOD)

## PERFORMANCE BANK GUARANTEE

In accordance of M/s. Bharat Heavy Electricals Limited (A Government of India undertaking, a company incorporated under the Companies Act 1956 having its Registered Office at "BHEL House", SIRI Fort, New Delhi 110 049) through its High Pressure Boiler Plant Division located at Tiruverumbur, Tiruchirapalli- 620 014 (hereinafter called 'the Company') having entered into a contract with .....hereinafter called 'the said contractor' which term includes 'suppliers' for the purpose of this Bond and under the terms and conditions of the contract No..... Dt ..... Between BHEL, Trichy and as per the contract, the contractor / supplier is to furnish a performance Bank guarantee for Rs. .... for the due performance of the equipment to be supplied under the above referred contract and for the fulfillment of all the terms and conditions of the contract, We .....(indicate the name of the bank) (herein after referred to as the bank) at the request of ..... (Contractor(s)) do hereby undertake to pay 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 with full address), 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 and conditions contained in the said Agreement or by the 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 unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We.....( indicate the name of 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 the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.



5. (I) 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. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack.Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

6. We .....(indicate the name of 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 powers 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 would, but for this provision, have effect of not so relieving us.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

8. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

9. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirapalli.

10. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.

11. We .....(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the \_\_\_\_\_ day \_\_\_\_\_ month 200

BANK E-MAIL ID:

BANK PHONE NO.

BANK FAX NO:

## MM : CAPITAL EQUIPMENT

### COMMERCIAL TERMS AND CONDITIONS

#### 1.0 QUOTATIONS

The Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

**Envelope I** This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

**Envelope II** This sealed envelope should contain Price Details. This envelope should be clearly marked "Part II - Price Bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Both the envelopes ( Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.

The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered.

Tender should not be addressed to any Individual's name but only by designation to:

SR.MANAGER / MM /CAPITAL EQUIPMENT

BHARAT HEAVY ELECTRICALS LIMITED

HIGH PRESSURE BOILER PLANT

TIRUCHIRAPALLI - 620 014

TAMIL NADU, INDIA

Contd 2/-

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All amount shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the offers will not be considered.

## **2.0 PART I (TECHNICAL & COMMERCIAL BID)**

### **2.1 Technical**

This part shall include / indicate the following :

- 2.1.1. Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
- 2.1.2. Point by point confirmation for the Technical Specification enclosed to be provided. if there are any deviation, the same should be clearly specified. Offers received without confirmation to our specification will be rejected.
- 2.1.3. List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed.
- 2.1.4. Relevant catalogues to be attached
- 2.1.5. List of spares parts (with part numbers) for two years operation and maintenance should be attached.
- 2.1.6. Information on shipping weight and cubage (length, width & height) to be provided.
- 2.1.7. Incase of foreign bidder offer, the Principal's technical offer should be enclosed.

### **2.2 Commercial**

This part shall include / indicate the following :

- 2.2.1. Port of shipment / Station of despatch
- 2.2.2. Terms of payment
- 2.2.3. Taxes & duties applicable.
- 2.2.4. Delivery Schedule

- 2.2.5. Offer validity
- 2.2.6. Country of origin
- 2.2.7. Percentage of agency commission if any along with a copy of Agency agreement.
- 2.2.8. A copy of "Un-Priced Part II" i.e., a copy of the Price Bid without the price details to be enclosed.

### 3.0 PART II (PRICE- BID)

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part I.

### 4.0 OPENING OF TENDERS

The Part I - Technical & commercial bid alone would be opened on the Tender opening date. The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

### 5.0 GENERAL

- 5.1. Incomplete offers will not be considered.
- 5.2. **Fixed Price:** Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regard to total price.
- 5.3. **Bid Currency:** Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their home currency.
- 5.4. **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net FOB / FCA Nearest Sea / Air Port. Indian Bidders should submit their offer for FOR - Despatching Station.

Contd 4/-

5.5. **Taxes and Duties :** All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & VAT / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties.

5.6. **Validity :** The offers for main equipment and spares shall be kept open for acceptance for 120 days (one hundred and twenty days) from the date of opening of the tender (Part I).

5.7. **Terms of Payment :**

5.7.1. **Indian Bidders**

5.7.1.1. The preferred payment terms are indicated below :

5.7.1.2. 100% payment, within 45 to 90 days, after receipt / acceptance / commissioning of equipment at BHEL, Tiruchi, against submission of 10% Performance Bank Guarantee on total order value.

or

5.7.1.3. 80% payment against documents through bank within 45 to 90 days, (after pre-despatch inspection) and balance 20% payment after receipt / acceptance / commissioning of the equipment 45 to 90 days, 45 to 90 days against submission of 10% Performance Bank Guarantee on total order value.

5.7.2. **Foreign Bidders**

An Irrevocable Letter of Credit shall be established for 80% of the value of the goods. Balance 20% shall be paid on receipt / acceptance / commissioning of the goods at BHEL against submission of Performance Bank Guarantee for 10% on total order value. All bank charges outside India are to Vendor's account.

5.8. **Performance Bank Guarantee (PBG):** The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a proforma prescribed by BHEL, along with the order, for an amount equivalent to 10% (Ten Percent) of the value of the contract. The PBG shall be valid for period of 18 months from the date of dispatch or 12 months from the date of receipt / acceptance / commissioning of the equipment at BHEL, Tiruchi whichever is earlier with additional claim period of 2 months.

Contd 5/-

The Performance Bank Guarantee shall be obtained from any one of the following banks who is a member bank in our consortium of banks.

- 1) State Bank of India, 2) State Bank of Hyderabad, 3) State Bank of Travancore, 4) State Bank of Mysore, 5) Canara Bank, 6) Bank of Baroda, 7) Punjab National Bank, 8) Deutsche Bank, 9) HDFC Bank, 10) Standard Chartered Bank, 11) Citi Bank, 12) Standard Chartered Grindlays Bank, & 13) Bank of America or any other Nationalised Bank

- 5.9. **Liquidated damages :** It is clearly understood among the parties to the contract the " Time is the essence of the contract ". Therefore, the delivery of the goods specified in the purchase order should be made within the time prescribed. Where the seller supplies or despatches the goods, beyond the delivery period specified the purchaser will have no obligation to accept the goods. If accepted liquidated damages at the rate of 1/2% of the value of goods delayed for each week of delay subject to a maximum of 15% of the order value will be levied.
- 5.10. **Risk Purchase :** Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.
- 5.11. **Indian Agency Commission :** In case of Foreign Bidders, agency commission if any, payable to their Indian Agents, shall shown separately in the Offer. This will be paid by us in India, in Indian Rupees, on satisfactory completion of the Contract. Copies of current Agency Agreement / Authorization Letter in respect of Agency Commission shall be furnished alongwith offer. For calculation of Rupee equivalent of Agency Commission, exchange rate as prevailing on the date of offer will be taken.

**NOTE:-**

To curb possible manipulation by agents, it is desirable that as far as possible BHEL discourage in dealing with agents of OEMs. (Original Equipment Manufacture)s.

i) When it is not possible to directly deal with OEMs and the involvement of agents become unavoidable, BHEL is made it clear to OEMs that while appointing Indian agents, it is responsibility to ensure that the agents are not representing other OEMs in the same tender.

ii) OEMs should also ensure that banned agents / employees of banded agents are not engaged by them in any capacity. An undertaking to this effect should be taken by OEMs and provided for each tender. It is also made it clear that if at any stage it is found that the OEM has appointed an agent who

- a. is banned by BHEL or
- b. is an employee of a banned agent or
- c. is found to be representing more that one OEM in the same tender the OEM (s) shall be disqualified

5.12. **Test Certificates / Operating and Maintenance Manuals :** The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.

5.13. **Modvat Credit :** (for Indian Bidders only) If any Excise Duty is payable, the chapter head / sub-head reference and the rate of the duty should be quoted. If the tender is availing **MODVAT** credit for his input materials, the effect of proforma credit should be passed on to the purchaser.

5.14. **Packing and Marking :** The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.

5.15. BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.