



ENQUIRY  
(INDIGENOUS)

## BHARAT HEAVY ELECTRICALS LIMITED

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

PHONE : 2577383  
GRAMS : BHARATELEC  
FAX NO: 2520696  
E-mail :  
Web :

429-002/A

<b>OFFICE COPY</b>	<b>Collective No.</b>	<b>Enquiry Date</b>	<b>Due Date For Quotation</b>
	2821200002	02.02.2012	28.02.2012
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	Screw feeder Mechanism : Volumetric Feeding rate : 0.1 to 2 g/min Hopper capacity : 0.15 to 0.20 CFT Conical hopper, metering auger and variable speed drive Detailed technical specification has been enclosed. Screw Feeder	NO	1.000	1.00	28.03.12

**General Note:**

- 1) OFFERS WILL BE INVITED IN TWO PART BID ONLY.
- 2) IF REGRETTED MAKE MENTION ON THE TOP OF THE REPLY COVER AS "REGRETTED"
- 3) LD CLAUSE HAS TO BE CONFIRMED WITHOUT FAIL, OTHERWISE WE WOULD ASSUME THAT YOU HAVE ACCEPTED OUR LD CLAUSE.
- 4) REQUIRED:a) GUARANTEE CERTIFICATE b) TEST CERTIFICATE
- 5) THE PREFERRED PAYMENT TERM IS 100% PAYMENT AFTER RECEIPT AND ACCEPTANCE OF MATERIALS.
- 6) ADVANCE OR PROFORMA INVOICE PAYMENT IS NOT ACCEPTED.
- 7) TRANSPORT AND DELIVERY AT BHEL / SHALL BE VENDOR'S SCOPE.
- 8) TENDER DETAILS ALSO HOSTED IN BHEL WEB: ' www.bhel.com '.

**Enclosures:**

"LD clause has to be confirmed without fail."  
"Payment to vendors will be made only thro E-Payment mode."

**PR Links**

Material.	PR.No	PR.Item.	Quantity	Acc. Assign	Customer Number
	75669975	00010	1.000	/000000	

**list of suppliers**

RFQ-5900000011

The offers should reach us 30 minutes before the time of opening of tenders.  
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

S. Subburaj  
Deputy Manager / R&D and CR,  
Bharat Heavy Electricals Limited,  
Goal Research Centre Building,  
Tiruchirapalli - 620 014.  
MANAGER / PURCHASE  
(FOSSIL BOILERS)

**Bharat Heavy Electricals Limited – Tiruchirapalli**  
**Technical Specifications For Screw Feeder**

Ref : BHE: CRC:3

Dt : 30-01-2012

**Note :**

The “Technical Bid” shall have vendor’s responses along with Product Catalogue, Data Sheets in ORIGINAL and complete technical details.

All Technical terms can be here. **NO PRICE DETAIL IS ENTERTAINED HERE.**

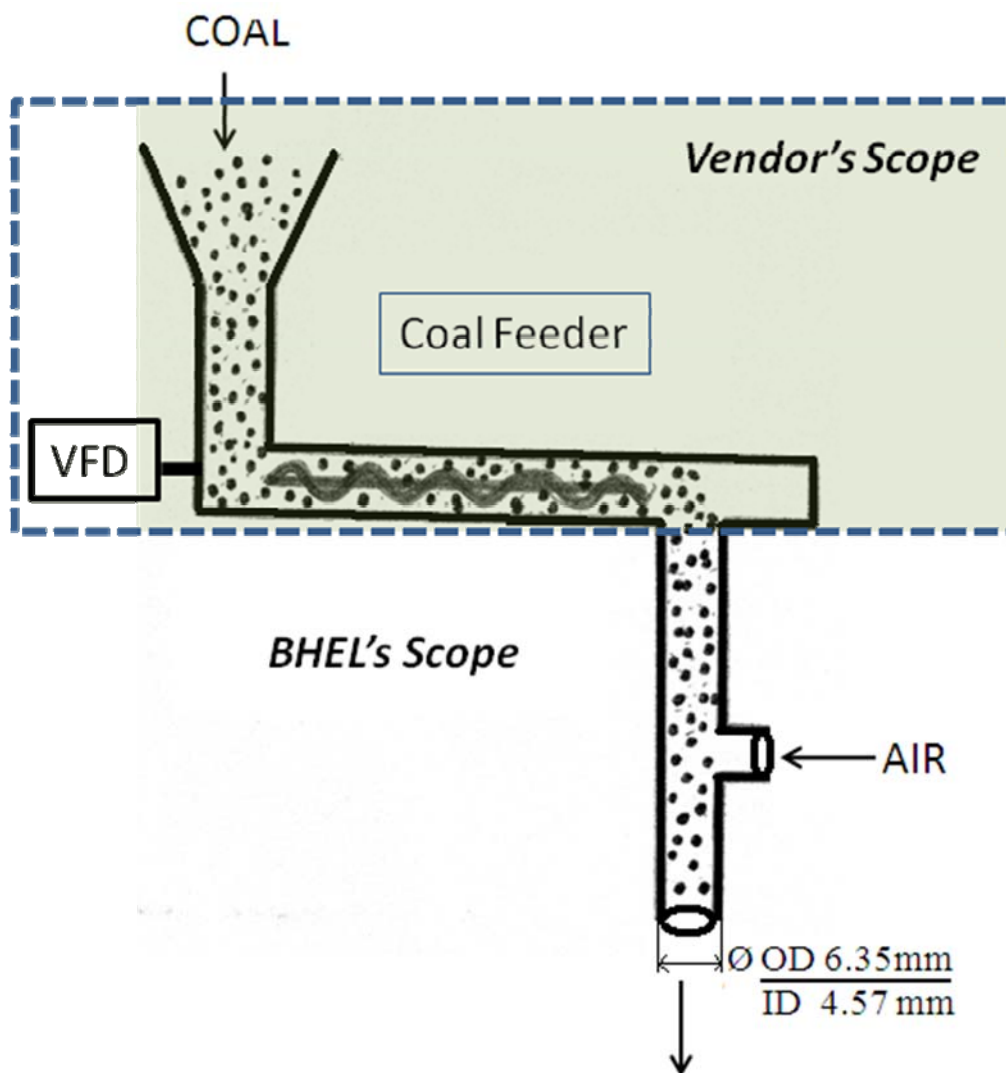
**Any deviation from the specifications may be brought-out clearly by the supplier in the technical bid**

S.No	Description	BHEL’s Specification/requirement	Supplier’s offer
1.	Item	Screw feeder with conical hopper, metering auger and variable speed drive made of SS body.	
2.	Material	Pulverized coal	
3.	Sample size	Nominal size range (90% by wt) : <75 μ Maximum size upto 200 μ	
4.	Bulk density	0.5 to 1.5 g/cc	
5.	Moisture in sample	5 to 10 %	
6.	Feed measure	Volumetric	
7.	Feed rate	0.1 to 2.0 g/min	
8.	Type of feeding	Continuous	
9.	Temperature	0 to 40°C	
10.	Feed accuracy	+/- 1 to 2 %	
11.	Hopper Capacity	0.15 to 0.20 CFT	

S.No	Description	BHEL's Specification/requirement	Supplier's offer
12.	Interfacing with Data Acquisition System	Provision for data logging is to be provided. RS 232/485 port	
13.	Dimensions and weight	To be specified by the supplier	
14.	Power supply	230 V, 50 Hz, Single Phase	
15.	Accessories required	All the accessories required are to be supplied by the vendor	
16.	Spares required	All the spares required for trouble free operation for a period of 5 years are to be recommended by the supplier. The itemized list of spares with unit price is to be quoted separately and not to be included in the mail offer.	
17.	Inspection at vendor works	<p>a) BHEL's inspection is applicable. Physical inspection of the feeder and associated accessories will be carried out at vendor works.</p> <p>b) All the features and guaranteed parameters of the feeder and associated accessories are to be demonstrated by the vendor during inspection .</p>	
18.	Installation and commissioning	The feeder with all accessories is to be installed & commissioned at BHEL works by the supplier.	
19.	Performance prove-out at BHEL	Vendor to <b>demonstrate the performance as per the specification</b> at BHEL's works.	
20.	Manuals	Hard and soft copies of complete set of installation and O&M manuals in English language	

S.No	Description	BHEL's Specification/requirement	Supplier's offer
21.	Documents to be furnished to BHEL along with the offer.	<ul style="list-style-type: none"> <li>• Scope of supply -2 copies.</li> <li>• Catalogs of models quoted-2 copies.</li> <li>• Lay out of the feeder with all dimensions clearly specified.</li> <li>• List of accessories</li> <li>• Mandatory spares with Unit price. (only the name of spare in the technical bid and its cost in the price bid)</li> <li>• Application notes , hard copy of literature with photos and drawings explaining the technical features</li> </ul>	
22.	Documents to be furnished to BHEL after placing purchase order	<ul style="list-style-type: none"> <li>• Lay out of the feeder and associated accessories with all dimensions clearly specified</li> <li>• Electrical wiring diagram indicating power supply requirement and cable specifications.</li> <li>• Quality certificates, internal test reports and calibration reports</li> <li>• Calibration is to be carried out for coal samples ( one lignite and one bituminous coal) provided by BHEL and the report to be provided</li> </ul>	
23.	After sales service	Service support and spares for the model offered should be assured for a minimum of five years	
24.	Onsite performance guarantee	The feeder and associated accessories are to be guaranteed for its performance for a minimum period of 1 year from the date of performance acceptance at BHEL works.	

## Scope Diagram For The Supply Of Screw Feeder



VFD – Variable frequency drive

## QUALIFYING CRITERIA

The BIDDER / VENDOR have to necessarily provide the following details, for making an assessment of the firm's capability and competency.

The bid consists of 2 parts namely Technical and Price bid. Vendor shall submit Technical and Price bid separately. BHEL will study both the Qualifying Criteria and Response for Technical Specifications. The Price bid can be studied only if both the Qualifying Criteria and Response for Technical Specifications are found acceptable.

[The BIDDER is expected to give complete details against each clause in the table given below and wherever necessary an additional sheet may be attached giving clear reference number to cover the required details]

Name of the product: Screw Feeder

Please refer Technical Specification for further details.

S. No.	PARTICULARS	VENDOR's RESPONSE
1.0	The BIDDER / VENDOR or their Principal shall have a minimum of FIVE Years of Continuous Experience in the Design, Manufacture & Supply of Screw feeder. Please indicate the actual experience.	
2.0	Number of " <b>Screw feeder</b> " supplied till date in India. Please furnish contact person name, address, phone number, fax number and mail id.	
3.0	Number of " <b>Screw feeder</b> " supplied till date outside India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.0	Please enclose Performance Certificate from atleast <b>one</b> Indian or Foreign customer.	
5.0	Details of Technical Back-Up assured from the PRINCIPAL supplier.	
6.0	The BIDDER / VENDOR shall assure a continuous support for SERVICE for Five Years, from the date of installation of the item at BHEL Works.	



Bharat Heavy Electricals Limited  
R & D and Coal Research  
Coal Research Centre

An ISO 9001 Company

Tiruchirappalli-620014, Tamil Nadu, India

## **COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER**

### **1.0 QUOTATIONS**

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. We suggest you to send the offer by SPEED POST.

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

**AGM / R&D and Coal Research  
Purchase Department  
Coal Research Centre (WRI Complex)  
BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPALLI - 620 014  
TAMIL NADU, INDIA**

Contact Phone No. 0431-257 7152 / 257 7558

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All amounts 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 details of process facility in **ENGLISH**.

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

### **2.1 Technical**

This part shall include / indicate the following:

Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.

### **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. 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. **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net **FOB - Nearest Sea Port / Air Port**. Indian Bidders should submit their offer for **Ex-Works /F.O.R basis**. Delivery shall be counted from the date of Letter of Intent.

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

*Note : We are not eligible to issue C Form.*



**BHARAT HEAVY ELECTRICALS LIMITED**  
**R&D / PURCHASE**  
**TIRUCHIRAPALLI - 620 014.**

**PURCHASE ENQUIRY - TERMS & CONDITIONS**

1. a) QUOTATIONS : Each tender should be sent in double cover, inner cover should be sealed with tenderer's distinctive seal and super scribed with correct tender No. item of supply and due of opening. The outer should only bear the address of this office and should not have any indication that a tender is within. Two or more quotation should not be sent in one cover but the quotation against each tender should be sent separately to avoid confusion. Tender should not be addressed to any individual's name but only by designation.  
b) Tender should be free from CORRECTION AND ERASURES. Correction if any, must be attested. All amounts 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 prevail.  
c) PRICE should be nett F.O.R. dispatching station inclusive of risk in transit and remain valid for 60 days from the due date.  
d) If any Sales Tax is payable as extra to the quoted price it should be specifically stated in quotations alongwith CST & TNGST No. failing which the purchaser will not be liable for payment of Sales Tax. Our T.N.G.ST. No. 356005, Dated 01-04-1995, C.S.T. No. 239383, Dated 11-06-1991.  
e) NO REVISION OF PRICES will be entertained after tenders are opened.  
f) Manufacturer's Name, Trade Mark or Patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation wherever necessary.  
g) Products with I.S.I. certification marks will be preferred.  
h) The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.
2. SAMPLES : Wherever possible, sample should be submitted separately whether specifically requested or not so as to reach the purchaser on or before the due date of the enquiry. They should be clearly marked with the Enquiry No. and the date on the outside cover to facilitate identification.
3. PACKING AND MARKING : The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.
4. TERMS OF PAYMENT : Payment will be made within 45 days of satisfactory receipt of materials at site. Wherever required by the purchaser, the successful tenderer must send the operation and maintenance manuals, Test certificates, Drawings, etc., for the materials ordered. These should be sent immediately after dispatch of the materials and a statement to that effect should be made in the Invoice. Failure to comply with this provision will result in delay in payment of the Bills. Goods dispatched either by V.P.P. or by the document presented through bank will be accepted unless agreed to by the Purchaser.  

The duplicate copy of the Invoice meant for the transporters should accompany the material as stipulated under C.E. Rules 52-A and 173-C (or) 57GG. A Photostat copy of the above Invoice for each delivery challan should be submitted alongwith the original bills router through Bank or submitted directly to BHEL Finance Department.
5. SECURITY DEPOSIT : For purchase over Rs. 5000/-the successful tenderer/s may be requested to furnish a BANK GUARANTEE / SECURITY DEPOSIT for an appropriate value as may be determined by BHEL.
6. LIQUIDATED DAMAGES / PENALTY AND INTEREST ON ADVANCEES FOR DELAY IN DELIVERY : "If the supplier fails to deliver the raw material / Equipment / Components within the period specified in the contract the purchaser shall deduct LIQUIDATED DAMAGES a sum equivalent to 0.5% of the Price for each week of delay upto a maximum of 15% of the price of the delayed / undelivered goods. In addition to the recovery of interest at normal cash credit rate plus 2% for the unadjusted portion of the advances. If the delay in delivery of a part contributes to delay in execution of total system. LD and interest on advances will be recovered on the total contract price / total advance paid".
7. 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 dispatch within the time stipulated as aforesaid 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 in addition to penalty at the rate mentioned in clause 6 above.
8. PREFERENTIAL DELIVERY : It should be noted if a contract is placed on a higher tenderer as results of this invitation to tender in preference to the lowest acceptable offer in consideration of the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. DESTINATION, including of all elements of Frights, Sales Tax, Duties and other incidents, incidental in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
9. MODVAT CREDIT : 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. Tenderer under "MODVAT" shall be preferred.
10. GENERAL : The purchaser reserves the right to split up the tender and place order for individual terms with different tenderers and also increase or decrease the quantity.

Any other Conditions which might have been quoted by the Seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by Purchaser will not be applicable to the Contract.



## BHARAT HEAVY ELECTRICALS LIMITED

R&D

TIRUCHIRAPALLI – 620 014.

MATERIAL MANAGEMENT DEPARTMENT

### ANNEXURE TO PURCHASE ENQUIRY

Please ensure that the following details are incorporated in your Offer.

1. PRICE : Ex-Works / Ex-Godown  
(or) F.O.R. – DESTINATION
2. DISCOUNT : % (or) Lumpsum amount – Rs.....
3. PACKING & FORWARDING : % (or) Lumpsum amount – Rs.....
4. TAX : TNGST % / CST %  
without concession and with concession  
(since, we are not eligible for Form-C please, FULL TAX may be mentioned)  
(Rates of applicable Taxes & Duties and whether inclusive  
or exclusive should also be mentioned)
5. SURCHARGE : %
6. DUTIES : %
7. FREIGHT & INSURANCE : %
8. DELIVERY PLACE :
9. DELIVERY PERIOD :
10. LD / PENALTY FOR DELAY IN DELIVERY : @ 0.5% PER WEEK SUBJECT TO A  
MAXIMUM OF 15% IS APPLICABLE.  
CONFIRM YOUR ACCEPTANCE.
11. OFFER VALIDITY :
12. PAYMENT TERMS : BHEL Payment terms are –  
1) 90% Payment through Bank against  
proof of despatch documents. Balance 10%  
after receipt and acceptance of materials.  
2) 100% payment within 45 days after  
Receipt and Acceptance of Material.
13. GUARANTEE / TEST CERTIFICATE:

SIGNATURE OF SUPPLIER WITH SEAL

NOTE : Please do not Quote as EXTRA,  
Quote the Rate in % / The Amount in Rupees.