



# BHARAT HEAVY ELECTRICALS LIMITED

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

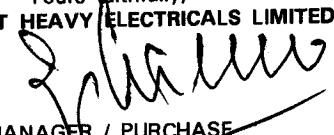
PHONE :2577629  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

429-002/A

	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
	2661400446 - 75	30.06.2014	23.07.2014
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	55 KW VFD PANEL FOR SHOT BLASTING 55 KW VFD PANEL WITH FOLLOWING SPECIFICATION AND SUITABLE FOR MOTOR DETAILS AS GIVEN BELOW. 1. MOTOR DETAILS; POWER ; KW 45 / 60 HP 3 PHASE / 415 VOLT / 50 HZ RPM : 1470 AMPS : 78 RATING : CONTINUOUS - S1 DUTY 2. INVERTER DRIVE SPECIFICATIONS Offered VFD Unit Should Have the following Accessories with IP54 enclosure Panel. a. Capacity :: 55 kW/ 70 HP b. Output Current :: 95 Amps c. Input Voltage :: 415 Volts, 3 Phase AC(+/-)10% d. Input Frequency :: 50 HZ (+/-)5% e. Output Voltage :: 3 Ph, 0 to 415 Volts with Voltage and Frequency variation Steeples f. D.CYCLE :: CONTINUOUS 3. AC VFD PANEL CONSISTS OF 1..Input MCB 2..Suitable input and output Choke to be provide for VFD 3..55 kW/ 70 HP module (Over load Capacity is 120%for one minute) 4..START/STOP/RESET push buttons. 5..RYB/ON/OFF/TRIP Indicator lamps. All indication lamps will be of LED type. 6..Speed varying POT - 10 Turns with Dial indication. 7..Indication: Digital display for RPM, Hz, AMPS, & DC BUS VOLT. 8..Advanced LCD Display to be supplied along with VFD for easy programming. 9..Cooling fan arrangement. 10..IP-54 Floor mount enclosure. 11..Glass cut out to be provided for viewing the parameters 12..Panel board should have lock and key arrangements.	NO	1.000	1.00	30.09.14

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  
  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
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13.,,Suitable rated terminal blocks must be provided for power and control wiring with clean markings.

14.,,The bottom plate of the panel must be removable type.(For cable entry)

15.,,PAINT : Siemen grey or apple green.

16.,,APPLICATIONS : To Drive a standard 3 phase AC Squirrel cage induction motor for Dust collection motor in Shot blasting machine.

#### 4. DOCUMENTS :

Three sets of operation & maintenance manual, electrical drawings for power and control circuit, wiring drawing of the panel board and bought out item shall be supplied and all parameters are to be provided.

#### 5. GENERAL CONDITIONS:

1.,,Drawing approval:- After placement of PO, the vendor shall submit the drawings to BHEL for approval.

2.,,Inspection will be carried out at suppliers work prior to despatch.

3.,,Training should be given for BHEL Engineer at Drive OEM works on free of cost during pre-dispatch inspection.

4.,,Guarantee certificate, operation and maintenance manual as specified above shall be sent along with the material.

5.,,Product catalogue shall be sent along with offer.

6.,,The scope of supply shall include assistance for installation and commissioning of the drive at BHEL's shop.

7.,,The makes should be inclusive of all the prevailing and used brands like AMTECH/L&T-Yaskawa / Fuji/Siemens/ABB/SEW/Eurotherm/Danfoss/Mitsubishi/Kirloskar/Schnieder or its equivalent.

8.,,The supplier shall have experience of minimum of two years in manufacturing, installation and commissioning of drives of similar capacity or more (evidence shall be provided).

9.,,Sufficient training input shall be given to BHEL technicians for maintaining the drive.

10.,,Two copies of operation and maintenance manuals shall be supplied.

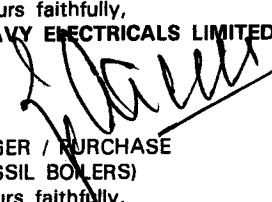
11.,,Guarantee for minimum period of ONE year from the date of installation shall be offered.

12.,,Control elements for protection and indication in the existing panel shall be used.

13.,,All the Electrical Switchgears used in the system shall be of

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reputed make like L&T, Siemens, ABB.  
14.,,The Supplier should ensure that the spares  
are available for the  
offered system for the next 5 years (minimum).

20 NO 1.000 1.00 30.09.14

2 x 5.5 KW VFD PANEL FOR STT WELDING  
2 x 5.5 KW VFD PANEL WITH FOLLOWING  
SPECIFICATION AND SUITABLE FOR  
SYNCHRONISATION OF TWO GEARED MOTOR  
DETAILS AS GIVEN BELOW.

1.,,MOTOR DETAILS:

Motor 1:

POWER ; 2.2 kW / 3 HP  
3 PHASE / 415 VOLT / 50 HZ  
RPM : 1430  
AMPS : 4.4  
RATING : CONTINUOUS

Motor 2:

POWER ; 3.7 kW / 5 HP  
3 PHASE / 415 VOLT / 50 HZ  
RPM : 1440  
AMPS : 7.0  
RATING : CONTINUOUS

2. INVERTER DRIVE SPECIFICATIONS

Offered VFD Unit Should Have the following  
Accessories with IP54  
enclosure Panel.

a. Capacity ,,: 5.5 kW / 7.5 HP  
b. Output Current ,,: 12 Amps  
c. Input Voltage ,,: 415 Volts, 3 Phase  
AC(+/-)10%  
d. Input Frequency ,,: 50 HZ (+/-)5%  
e. Output Voltage ,,: 3Ph, 0 to 415 Volts  
with Voltage and Frequency  
variation Steeples

f. D.CYCLE ,,: CONTINUOUS

3. AC VFD PANEL CONSISTS OF

1.,,Input MCB

2.,,Suitable input and output Choke to be  
provide for each VFD

3.,,5.5 kW / 7.5 HP module (Over load  
Capacity is 120%for one minute)

4.,,START/STOP/RESET push buttons.

5.,,RYB/ON/OFF/TRIP Indicator lamps. All  
indication lamps will be of LED  
type.

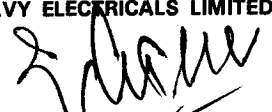
6.,,3 Numbers of Speed varying POT - 10  
Turns with Dial indication  
& lock arrangement. 2 nos for independent  
operation of each drive  
and one for synchronised surface rollers with  
different geared motor  
driven by each VFD.

7.,,Indication : Digital display for RPM, Hz,  
AMPS, & DC BUS  
VOLT.

8.,,Advanced LCD Display to be supplied along  
with VFD for easy

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- programming.  
9.,,Cooling fan arrangement.  
10.,,IP-54 Floor mount enclosure.  
11.,,Glass cut out to be provided for viewing the parameters  
12.,,Panel board should have lock and key arrangements.  
13.,,Suitable rated terminal blocks must be provided for power and control wiring with clean markings.  
14.,,The bottom plate of the panel must be removable type.(For cable entry)  
15.,,PAINT : Siemen grey or apple green.  
16.,,APPLICATIONS : To Drive 2 num.bers of standard Geared 3 phase AC Squirrel cage induction motors in synchronised surface speed.
4. DOCUMENTS :  
Three sets of operation & maintenance manual, electrical drawings for power and control circuit, wiring drawing of the panel board and bought out item shall be supplied and all parameters are to be provided.
5. GENERAL CONDITIONS:  
1.,,Drawing approval:- After placement of PO, the vendor shall submit the drawings to BHEL for approval.  
2.,,Inspection will be carried out at suppliers work prior to despatch.  
3.,,Training should be given for BHEL Engineer at Drive OEM works on free of cost during pre-dispatch inspection.  
4.,,Guarantee certificate, operation and maintenance manual as specified above shall be sent along with the material.  
5.,,Product catalogue shall be sent along with offer.  
6.,,The scope of supply shall include assistance for installation and commissioning of the drive at BHEL's shop.  
7.,,The makes should be inclusive of all the prevailing and used brands like AMTECH/L&T- Yaskawa / Fuji /Siemens/ABB/SEW/Eurotherm/Danfoss/Mitsubishi/ Kirloskar/ Schnieder or its equivalent  
8.,,The supplier shall have experience of minimum of two years in manufacturing, installation and commissioning of drives of similar capacity or more (evidence shall be provided).  
9.,,Sufficient training input shall be given to BHEL technicians for maintaining the drive.  
10.,,Two copies of operation and maintenance manuals shall be supplied.  
11.,,Guarantee for minimum period of ONE year

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from the date of installation shall be offered.  
12.,Control elements for protection and indication in the existing panel shall be used.  
13.,All the Electrical Switchgears used in the system shall be of reputed make like L&T, Siemens, ABB.  
14.,The Supplier should ensure that the spares are available for the offered system for the next 5 years (minimum).  
15.,Vendor may visit the site if any clarification required.

30 NO 3.000 3.00 30.09.14

VFD MODULE 3.7KW FOR DRT 10 SHADDLE  
3.7 KW VFD WITH FOLLOWING  
SPECIFICATION AND SUITABLE FOR MOTOR  
DETAILS

AS GIVEN BELOW. ( Only Drive . No Control panel)

1. MOTOR DETAILS:

POWER ; KW 3.7 / 5.0 HP  
3 PHASE / 415 VOLT / 50 HZ  
RPM : 1440  
AMPS : 8  
RATING : CONTINUOUS

2. INVERTER DRIVE SPECIFICATIONS

Offered VFD Unit Should Have the following  
Accessories with IP54  
enclosure Panel.

a. Capacity ::::: 5.5 kW / 7.5 HP (Over  
load Capacity is 120%for  
one minute)

b. Output Current :: 12 Amps

c. Input Voltage :: 415 Volts, 3 Phase  
AC(+/-)10%

d. Input Frequency :: 50 HZ (+/-)5%

e. Output Voltage :: 3Ph, 0 to 415 Volts  
with Voltage and Frequency  
variation Steeples

f. D.CYCLE ::::: CONTINUOUS

g. Advanced LCD Display to be supplied along  
with VFD for easy  
programming & Operation of Drive with Digital  
display provision for RPM,  
Hz, AMPS, & DC BUS VOLT.

h. The makes should be inclusive of all the  
prevailing and used brands


like AMTECH/L&T- Yaskawa / Fuji  
/Siemens/ABB/SEW/Eurotherm/Danfoss/Mitsubishi  
/Kirloskar/ Schnieder or  
its equivalent

40 NO 3.000 3.00 30.09.14

VFD MODULE 5.5KW FOR ROTATOR  
5.5 KW VFD WITH FOLLOWING  
SPECIFICATION AND SUITABLE FOR MOTOR  
DETAILS

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AS GIVEN BELOW. ( Only Drive . No Control panel)

1. MOTOR DETAILS:

POWER ; KW 5.5 / 7.0 HP  
3 PHASE / 415 VOLT / 50 HZ  
RPM : 1440  
AMPS : 12  
RATING : CONTINOUS

2. INVERTER DRIVE SPECIFICATIONS

Offered VFD Unit Should Have the following Accessories with IP54 enclosure Panel.

- a. Capacity : 5.5 kW / 7.5 HP (Over load Capacity is 120%for one minute)
- b. Output Current : 15 Amps
- c. Input Voltage : 415 Volts, 3 Phase AC(+/-)10%
- d. Input Frequency : 50 HZ (+/-)5%
- e. Output Voltage : 3Ph, 0 to 415 Volts with Voltage and Frequency variation Steeples
- f. D.CYCLE : CONTINOUS (Heavy duty)
- g. Advanced LCD Display to be supplied along with VFD for easy programming & Operation of Drive with Digital display provision for RPM, Hz, AMPS, & DC BUS VOLT.
- h. The makes should be inclusive of all the prevailing and used brands like AMTECH/L&T- Yaskawa / Fuji /Siemens/ABB/SEW/Eurotherm/Danfoss/Mitsubishi /Kirloskar/ Schnicder or its equivalent

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NO

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2 x 5.5 KW VVVF DRIVE (11KW)  
2 x 5.5 KW VVVF DRIVE (11KW)

SPECIFICATION:

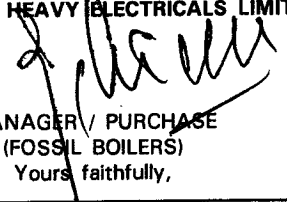
SUPPLY OF SUITABLE VVVF DRIVE TO DRIVE TWO MOTORS OF SIMILAR RATING. THESE MOTORS ARE USED IN A POSITIONER TO ROTATE A JOB OF AROUND 150TON AND THE SPEED OF THE ROTATOR IS CONTINUOUSLY VARIABLE FROM NEARLY ZERO SPEED TO THE RATED SPEED WITH LOAD. HENCE, THE OFFERED DRIVE SHOULD BE SUITABLE FOR CONSTANT TORQUE APPLICATION.

THE SPECIFICATION OF MOTOR(2 nos)WHICH IS GIVEN BELOW:

FRAME SIZE:112 M  
5.5KW, 3 phase,  
2840 RPM,11 AMPS  
415V,50HZ,  
FLANGE MOUNTED.  
INSULATION CLASS: F  
IP:55,Efficiency:86%

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For BHARAT HEAVY ELECTRICALS LIMITED

  
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**NOTE:**

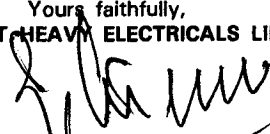
- 1) A SINGLE VFD DRIVE UNIT CAPABLE OF DRIVING THE ABOVE TWO MOTORS AT THE SAME TIME
- 2) THE VENDOR SHALL PROVIDE NECESSARY CATALOGUE AND TECHNICAL SPECIFICATIONS OF THE VFD ALONG WITH THE OFFER
- 3) THE VENDOR SHALL PROVIDE NECESSARY PROGRAMMING SOFTWARE WITH COMPATIBLE INTERFACE CABLE TO COMMUNICATE WITH PC/LAPTOP
- 4) THE MAKE OF THE DRIVE SHOULD BE INCLUSIVE OF ALL THE PREVAILING AND USED BRANDS LIKE AMTECH/L&T-YASKAWA / FUJI/SIEMENS/ABB/SEW/EUROTHERM/DANFOSS/ MITSUBISHI/KIRLOSKAR/ SCHNIEDER OR ITS EQUIVALENT.

60 NO 2.000 2.00 30.09.14

45kW VF DRIVE  
VARIABLE FREQUENCY DRIVE 45kW  
TECHNICAL SPECIFICATIONS:  
# Input supply: 3 phase 380 - 450 VAC, 50 Hz.  
# Tolerance: Voltage tolerance:  $\pm 10\%$ ,  
Frequency tolerance:  $\pm 5\%$   
# Auto Control signal: 4-20 mA, 0-10 V DC  
# Manual Control: 0-10V dc through external 10k potentiometer.  
# Normal Duty:  
Rated capacity: 60HP or more  
Max Continuous Rated Current (A): 87  
or more  
Max Applicable Motor (kW): 45 or more  
# Heavy Duty:  
Rated capacity: 50HP or more  
Max Continuous Rated Current (A): 72  
or more  
Max Applicable Motor (kW): 37 or more  
# Suitable acceleration / deceleration ramp to ensure smooth variation of armature voltage.  
# Parameter edit feature  
# Current limit: 5-130 % of full load current.  
# Current trip: 5-200 % of full load current.  
# Regulation: maintain output within 2% with a  $\pm 10\%$  of line voltage change.  
# Environment: Operating temperature 100 C to 550 C  
FEATURES:  
# In-built Display / indication for Trouble shooting.  
# Selectable control inputs  
# Solid state unit  
# Over temperature protection  
# Drive ready relay  
# Jog / Inching facility

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- # High PIV rated SCR modules
- # Isolated heat sinks to dissipate heat from SCR modules
- # Snubber circuit for dv/dt protection.
- # Transient voltage protection
- # Suitable chokes in armature and field circuits

**NOTE**

- 1) THE VENDOR SHALL PROVIDE NECESSARY CATALOGUE AND TECHNICAL SPECIFICATIONS OF THE VFD ALONG WITH THE OFFER
- 2) THE VENDOR SHALL PROVIDE NECESSARY PROGRAMMING SOFTWARE WITH COMPATIBLE INTERFACE CABLE TO COMMUNICATE WITH PC/LAPTOP
- 3) THE MAKE OF THE DRIVE SHOULD BE INCLUSIVE OF ALL THE PREVAILING AND USED BRANDS LIKE AMTECH/ L&T-YASKAWA/ FUJI/ SIEMENS/ ABB/SEW/ EUROTHERM/ DANFOSS/ MITSUBISHI/ KIRLOSKAR/SCHNIEDER OR ITS EQUIVALENT.

**General Note:**


1. POINT-BY-POINT CONFIRMATION TO BHEL'S SPECIFICATIONS, COMMERCIAL TERMS & CONDITIONS ARE TO BE PROVIDED BY THE VENDORS IN "ANNEXURE A&B
2. FILL UP ANNEXURE A. PLEASE ENSURE THAT ALL TERMS & CONDITIONS SHOULD BE INDICATED IN THE UN-PRICED BID TO BE ATTACHED WITH THE TECHNO-COMMERCIAL BID POSITIVELY.
3. VALIDITY OF THE OFFER SHOULD NOT BE LESS THAN 120 DAYS.
4. THE ORDER WILL BE PLACED ON INDIVIDUAL ITEMWISE L1 BASIS.
5. THE BIDDER SHALL MEET PRE-QUALIFICATION CRITERIA
6. WHEREVER FOR SPLITTING OF ORDER AS PER ANNEXURE II CLAUSE 27,IF SPLITTED QUANTITY COMES OUT  $< 1$  ,THE SPLITTING OF ORDER WILL NOT BE FEASIBLE. (For MSE vendors)
7. BHEL Reserves The Right To Go For A Reverse Auction (RA) Instead Of Opening The Submitted Sealed Price Bid, Which Will Be Decided After Technical Evaluation. Information And General Terms And Conditions Covering Ra Are Given In Annexure-I.

**LIST OF ATTACHMENTS:**

1. PRE-QUALIFICATION CRITERIA
2. ANNEXURE-I- GENERAL TERMS & CONDITIONS OF RA
3. ANNEXURE-II TERMS AND CONDITIONS OF THE ENQUIRY. (TWO PART-BID)

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4. ANNEXURE-V- CA certificate format to be furnished as per MSMED act 2006, if applicable (For MSE vendors)

5. ANNEXURE-A CHECK LIST FOR TECHNICAL & COMMERCIAL TERMS CONFIRMATION-TO BE FILLED BY THE SUPPLIER.

6. ANNEXURE-B MODEL PRICE BID FORMAT.

7. ANNEXURE-C -CHECKLIST FOR RA CINDUCTANCE

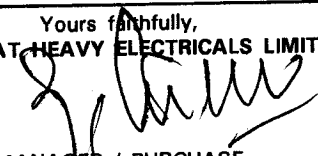
8. ANNEXURE-VI CHECK LIST TO BE SUBMITTED ALONG WITH OFFER

**Enclosures:**

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

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## PRE - QUALIFICATION CRITERIA

The BIDDER has to compulsorily meet the following requirement and supporting documents should be furnished with out which the offer will not be considered for technical evaluation.

S. No.	Requirements	Vendors Response
1	"Only those vendors shall quote who has experience of minimum of two years in manufacturing, installation and commissioning of drives of similar capacity or more. In case of dealer, Valid authorisation certification shall be submitted along with offer & Dealer shall have minimum of two years in installation and commissioning of drives of similar capacity or more (evidence shall be provided along with offer)"	Vendor to specify

**Terms & Conditions of Reverse Auction**

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 (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid" in the Reverse Auction. Non-submission of "online sealed bid" by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. 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.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" 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) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.
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.
12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action *as per extant BHEL guidelines*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

## ANNEXURE -C

### CHECK LIST FOR RA CONDUCTANCE

<b>General terms and conditions, Commercial terms and conditions acceptance for participation in Reverse auction (RA) on individual item wise L1 basis</b> <b>Yes/No to be indicated</b>	<b>Vendor's confirmation- Yes/No</b>
Name of the person for participating in reverse auction.	
Land Line Number	
Fax Number	
Mobile Number	
E-mail ID	

**TERMS AND CONDITIONS OF THE ENQUIRY (TWO PART BID)**

1. The tender will be operated on two part bid basis i.e. (I).Techno-Commercial Bid & (II).Price Bid.
  2. Techno-Commercial Bid: Containing Technical details, specifications, commercial terms and conditions like percentage of Freight & Insurance, ED WITH CESS, Taxes ,delivery terms, delivery schedule, validity of offer, payment terms (except price details), acceptance for LD clause, RP clause etc. as per ANNEXURE-A shall be put in a cover (1) and super scribed as "Techno-Commercial Bid" for Enquiry No: .....Dt: .....Due Dt.: .....
  3. Price Bid: Containing the price details shall be put in a separate cover (2) and superscripted as "Price Bid" for Enquiry No: .....Dt: .....Due Dt.: ..... as per ANNEXURE –B (submitted in your company letter head)
  4. You are requested to put the above two envelopes (Techno-Commercial Bid & Price Bid) inside a separate larger sealed envelope and this envelope shall be super scribed as "Techno-Commercial Bid and Price Bid" for Enquiry No: .....Dt: .....Due Dt.: .....
- Your Quotations should be sent to:  
The Manager,  
Purchase Department // CP&SP /266/75  
Section- Materials Management / Raw Materials,  
24 Building (4th Floor),  
Bharat Heavy Electricals Limited,  
Tiruchirappalli - 620 014.
5. Tender should not be addressed to any individual's name but only by designation.
  6. 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 only be considered.
  7. Please submit point wise compliance to our specifications, terms and conditions. Otherwise it will be presumed that you are accepting BHEL's terms and conditions. Fill Up Annexure A. Please Ensure That All Terms & Conditions Should Be Indicated in The Un-Priced Bid To Be Attached With The Techno-Commercial Bid Positively(ANNEXURE-A)
  8. Offer/s received after due date and time: 02:00 pm will not be considered under any circumstances.
  9. **Validity** of quoted rates should be maintained minimum for 120 days from the date of Tender opening for ordering ( Technical Bid). The quoted/Finalized rates shall be Firm till completion of the supplies.
  10. The rates are to be quoted on **F.O.R. despatching station basis (Inclusive of Packing, Forwarding) and separately Freight & Transit Insurance charges which are payable to supplier**. All the items should be supplied at our stores, BHEL / TRICHY-14 at your own cost. Offers with any other delivery conditions is not acceptable .

**IMPORTANT NOTE:** (I) Delivery condition like Ex-works / Ex-godown / Transportation of materials through transport carriers from your works up to the transport carrier's office at Tiruchy and taking delivery of goods by BHEL from such office of transport carriers is not acceptable to us)

**11. Payment Terms (Indigenous)**

Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.

Any deviation in the above payment term will attract loading as mentioned below.  
"Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.

Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.

**Payment term for supply portion( For import supplies)**

BHEL Payment term is 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account.

Any deviation in the above payment term will attract loading as mentioned below.

"Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.

In the case of Usance LCs the loading will be considered @ 1.5% on the offered Value.

For LC at sight the loading will be considered @ 3.5% on the offered Value.

Normally CAD at sight and Confirmed LCs are liable for rejection.

**Payment terms for Indian agent:**

Indian Agency Commission ,if any, shall be clearly specified in the offer and the same will be paid in Indian Rupees against acceptance of the materials

**12. Liquidated Damages / Penalty:-**

Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.

For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part there of subject to a maximum of 10% of the total order value.

Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

13. If Guarantee / Warranty period is applicable as per tender specification, No deviation permitted and deviated offers are liable for rejection.

**14. IMPORTANT NOTE: BHEL WILL CONSIDER THE RANKING AFTER THE LOADING IS APPLIED AS REFERRED ABOVE WHEREVER DEVIATIONS ARE OBSERVED.**

15. No revision of prices will be entertained at any circumstances after tenders are opened.

16. If any sales tax is payable as extra to the quoted price it should be specifically stated in quotations along with CST & VAT Number failing which the purchaser will not be liable for payment of sales tax. Our TIN 33243560005 dt.01.01.2007 & CST no 239383 DT, 11.06.1991

17. On the due date of tender opening, only the technical bids will be opened. Technical bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points. The price bids of techno-commercially suitable bidders will be opened at a later date with prior intimation to respective suitable bidders.

18. Ranking L-1, L-2 etc. shall be done generally on each individual items for the techno-commercially acceptable offers on landed cost to BHEL, ~~Trichy~~ basis and BHEL reserves the right to place order for individual items with different vendors. At special circumstance ranking shall be done on compatible basis which will be indicated through Enquiry special instruction General Notes.

19. BHEL reserves the right to increase or decrease the tender quantity and split up the tender quantity among more than one vendor at the lowest acceptable price to BHEL and place order accordingly in any proportion at our own discretion.

20. Lowest price received against BHEL tenders need not be the technically acceptable one and in that case BHEL reserves the right not to consider the same. 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.

21. BHEL reserves the right to negotiate or refloat the tender opened, if L1 price is not the lowest acceptable price to BHEL due to inter-alia other reasons.

22. **PACKING AND MARKING:** The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.

23. **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 previous 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 substitutes therefore. The new 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 our LD clause.

24. **PREFERENTIAL DELIVERY:**(Applicable in the case of BHEL's Enquiry specifies Preferential Delivery in the Special Instructions) It should be noted if a contract is placed on a higher tendered as a result 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 all elements of freights, 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, such difference amount in addition to penalty at the rate mentioned in our LD clause.

25. CENVAT CREDIT: If any Excise Duty is payable, the Chapter Head / Sub-head reference and the rate of the duty should be quoted. If the Tenderer is availing CENVAT credit for this input material, the effect of Performa credit should be passed on to the purchaser. Tenderer under "CENVAT" shall be preferred.

26. 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 by purchaser in written will not be applicable to the contract.

27. The bidder may also be a Micro and Small Enterprises (MSE) vendor registered as per MSE act. As per the public procurement policy notified by the Central government,

20% of the tendered quantity is earmarked for MSE suppliers in this tender.

Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs.

In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.

MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed Annexure - V) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier. Documents submitted after technical bid opening will not be considered in the tender.

28. For verification of data submitted towards evaluation of bidder's capability, BHEL may decide to visit the bidder(s) works. Any fact found deviating from submitted data shall make the bidder liable to be disqualified.

29. In the event of more than one vendor becoming L1 for any of the item / items, the enquiry quantity for those item / items will be shared equally among all the L1 vendors.

30. The correspondence between the bidder and BHEL through email is considered as valid document Legally though not signed. It is treated as valid confirmations made on behalf of the respective company and comes under the legal ambit of the business transaction and hence binding on both the parties.

31. Equipment will be inspected and proved at vendor's works prior to dispatch, if applicable as per tender condition. However final inspection and acceptance of equipment will be after installation at BHEL, Trichy.

32. Erection / commissioning charges, if applicable as per tender condition will be clearly mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer.

33. Price shall be quoted item wise.

34. Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, TIRUCHIRAPALLI basis

35. 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.

36. Part Shipment or Transshipment is not permissible. (For import supplies)

37. 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. (For import supplies)

38. Indicate Nearest airport & sea port, Country of Origin (For import supplies)

39. Vendors Meeting Our Pre-Qualification Criteria & Technical Specification Will Be Essential For Consideration Of Offer.

40. For The Vendor Willing To Participate In Tender Opening, The Representative Should Have Valid Company ID Proof & Authorization Letter From The Concerned Firm Who Has Submitted The Offer.

41. After Technical Scrutination Of The Offers, Price Bid Of Only Technically Qualified Vendors Will Be Opened With Prior Intimation.

42. If The Due Date Of Tender Opening Happens to be a Holiday, Those Tenders Will Be Opened On Next Working Days

43. For any clarification you can contact to srchandran@bheltry.co.in, pgavictor@bheltry.co.in, rravic@bheltry.co.in

44. This Tender Is Hosted Both In BHEL Website And In NIC, PSU Portal And Any Corrigendum May Pl Be Viewed in BHEL's website <http://www.bhel.com> (Tender Notification page)

Govt. Tender website <http://tenders.gov.in> (Public sector units > Bharat Heavy Electricals Limited Page)

**General Note For The Enq On Reverse Auction conductance :**

1. Bhel Reserves The Right To Go For A Reverse Auction (RA) Instead Of Opening The Submitted Sealed Price Bid, Which Will Be Decided After Technical Evaluation. Information And General Terms And Conditions Covering RA Are Given In **Annexure-I**.
2. Reverse Auction Is Done Through On Line Internet Through A Service Provider Appointed By BHEL. Hence Vendors Shall Make Themselves Equipped With Email, Fax And Internet Facility Etc.
3. In Case Of Going For Reverse Auction Vendors Will Be Suitably Informed About The Working Procedures Of Reverse Auction Process And Bhel Will Provide All The Relevant Details To Enable The Vendor To Participate. Service Provider Will Also Give Demo- Training.
4. The RA Will Be Done On Individual Itemwise L1 Basis, Not On The Whole Package L1 Basis

**Certificate by Chartered Accountant on letter head**

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at  
..... is registered under MSMED Act 2006, (Entrepreneur  
Memorandum No (Part-II) ..... dtd:.....,  
Category: ..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on  
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :  
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:  
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of  
Rs.....Lacs for .....Micro / Small (Strike off which is not applicable)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

**ANNEXURE –A (CHECK LIST FOR TECHNICAL & COMMERCIAL TERMS CONFIRMATIONS)****(a). TECHNICAL TERMS CONFIRMATION: AGAINST ALL ENQ SL NOS. (SUBMITTED IN COVER NO: 1)**

ENQ SL NO	BHEL SPECIFICATIONS	VENDOR'S SPECIFICATION	unit	Quantity	Consignment against each item	weight item	whether quoted/ not quoted
10							
20							
30							

**(b). COMMERCIAL TERMS CONFIRMATION REQUIRED FROM SUPPLIERS (SUBMITTED IN COVER NO: 1)**

SL NO	DESCRIPTION	BHEL REQUIREMENTS	SUPPLIER CONFIRMATION
1	VALIDITY	MINIMUM 120 Days from Date of tender opening	
2	PRICE QUOTED	FOR BHEL TRICHY STORES INCLUSIVE OF PACKING & FORWARDING CHARGES.	
3	EXCISE DUTY WITH CESS (Whether inclusive (or) extra) Clearly mention the percentage	SUPPLIER TO QUOTE	
4	VAT % Clearly mention the percentage	SUPPLIER TO QUOTE	
5	CST % against form 'C' Clearly mention the percentage	SUPPLIER TO QUOTE	
6	FREIGHT & INSURANCE CHARGES FOR DELIVERY AT BHEL / TRICHY STORES	SUPPLIER TO QUOTE IN % ONLY	
7	DEIVERY SCHEDULE FROM THE DATE OF PURCHASE ORDER / LETTER OF INTENT	SUPPLIER TO QUOTE IN NO. OF DAYS/ WEEKS	
8	PAYMENT TERMS	As per Clause 11 of Terms and Conditions of the Enquiry (Two Part Bid)	
9	LIQUIDATED DAMAGES CLAUSE	As per Clause 12 of Terms and Conditions of the Enquiry (Two Part Bid)	
10	RISK PURCHASE CLAUSE	As per Clause 23 of Terms and Conditions of the Enquiry (Two Part Bid)	
11	GUARANTEE / WARRANTY	AS PER TENDER CONDITION	
12	ERECTION / COMMISSIONING	AS PER TENDER CONDITION	
13.	Origin of dispatch	SUPPLIER TO QUOTE	
14.	Nearest airport & sea port (For import supplies)	SUPPLIER TO QUOTE	
15.	Country of Origin (For import supplies)	SUPPLIER TO QUOTE	
16	CONTACT PERSON DETAILS	NAME:	
		MOBILE NO:	
		LAND LINE NO:	
		EMAIL :	
		FAX:	

**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 our Payment terms, LD & Risk Purchase Clause are essential for consideration of your offer.

c). No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Full postal Address:

Signature & Office Seal of the vendor

## **ANNEXURE –B (MODEL PRICE BID FORMAT)**

<b>ENQ SL NO</b>	<b>BHEL SPECIFICATIONS</b>	<b>VENDOR'S SPECIFICATION</b>	<b>unit</b>	<b>quantity</b>	<b>Rate in Rs.</b>	<b>Value in Rs.</b>
10						
20						
30						

**PRICE BID FORMAT OF ALL QUOTED ITEMS, IF ANY ITEM YOUR ARE NOT QUOTED SIMPLY YOU SHOULD MENTION AS "NOT QUOTED" AGAINST THAT ENQ SL NO. (SUBMITTED IN SEPARATE COVER NO: 2)**

## Annexure-VI

### CHECK LIST TO BE SUBMITTED ALONG WITH OFFER

SL NO	Documents submitted	Vendor's Yes/No	Confirmation
01.	Offer Submitted in 2 part bid system		
02.	Annexure-A		
03.	Annexure-B		
04.	For MSE vendors whether documents submitted as per Annexure-II SL.no.27		
05.	Pre-Qualification Criteria fulfilled & documents Submitted		
06.	Documents/technical catalogues /DRAWINGS, (wherever as applicable) submitted as per tender condition		
07.	point to point confirmation provided as per tender condition		
08	In case of RA conductance ,Details submitted as per RA checklist		