



Bharat Heavy Electricals Limited
(Seamless steel Tube Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA

TITLE: SUPPLY OF 150KW VARIABLE SPEED DRIVE	Phone: +91 431 257 8428 Email : rbmurugan@bheltry.co.in Web : www.bhel.com
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Reference Number: 9331330E	Date: 12/02/2014	Due date for submission of application: 06/03/2014
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A. BHEL/SSTP, Trichy is looking for vendors to supply 150KW VARIABLE SPEED DRIVE as per Tender documents attached.

B. Important Note to New Vendors

The new vendors will be required to furnish the following documentary proof/ information along with their offers:

1. Certificate of registration (copy of certificate to be submitted).
2. Banker's information (copy of bank pass book first page to be submitted).
3. MSME vendor certificate (if applicable).
4. Address of your organization (complete postal address with PINCODE).
5. Contact person's Phone No. /Mobile No. / FAX No. /E-mail ID.
6. Statutory documents – VAT / TIN / EXCISE REGISTRATION / CST REGN / SERVICE TAX REGISTRATION etc. (copy to be furnished)
7. NSIC/SSI Certificate (if applicable)
8. ISO Certificate (if applicable)
9. Experience certificate as proof of supply of similar items to any Govt. agencies / PSU / Organisations (copy of PO's to be furnished).
10. Audit Report/ IT Return (if applicable)
11. Agency agreement with manufacturer (if applicable)
12. Partnership Deed (if applicable).

If the new vendors fail to submit the above documentary proof/information, their offers will not be considered for this enquiry.

Senior Manager / Purchase /SSTP
Phone: 0431-257 8428.
Mail: rbmurugan@bheltry.co.in



BHARAT HEAVY ELECTRICALS LTD.
 (A GOVERNMENT OF INDIA UNDERTAKING)
 SEAMLESS STEEL TUBE PLANT
 TIRUCHIRAPPALLI - 620 014.
 TAMIL NADU.

PHONE : 0431-2578480,
 2578547,2578428,
 2578406
 FAX : 0431-2520464/383

TIN : 33243560005

CST No. 239383
 Dated 11.06.1991

PURCHASE ENQUIRY

VENDOR CODE 19509	ENQUIRY NUMBER 9331330E	ENQUIRY DATE 12/02/2014	ENQUIRY DUE DATE 06/03/2014	No.OF ITEMS 01
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Office Copy

- IMPORTANT POINTS :**
1. Tender Closing Time - 14.00 Hrs.
 2. Tender Opening Time - 15.00 Hrs.
 3. Tender should be submitted in a sealed cover, duly indicating enquiry No., Enquiry date & Enquiry Due Date on the cover.
 4. Offer(s) received through Courier Services after 14.00 Hrs. on Enquiry Due Date not be considered.
 5. Late Tender (s) is/are liable for rejection.
 6. Other(s) shall be valid for 60 days from Enquiry Due Date.
 7. Offer(s) in Vendor's Letter-Head shall contain.
 - a. Offer No. and Date
 - b. Delivery Period
 - c. Delivery Terms
 - d. Payment Terms
 - e. Excise Duty with Tariff Heading Sales Tax (against form-XVII/Form-C), etc.
 - f. Excise Regn. No. and SSI Regn. No.

Kindly arrange to submit your **COMPETITIVE OFFER** for the following item(s).
 If you are not in a position to submit your Offer, kindly arrange to send your **REGRET LETTER**.

THIS IS ONLY A REQUEST FOR OFFER AND NOT AN ORDER

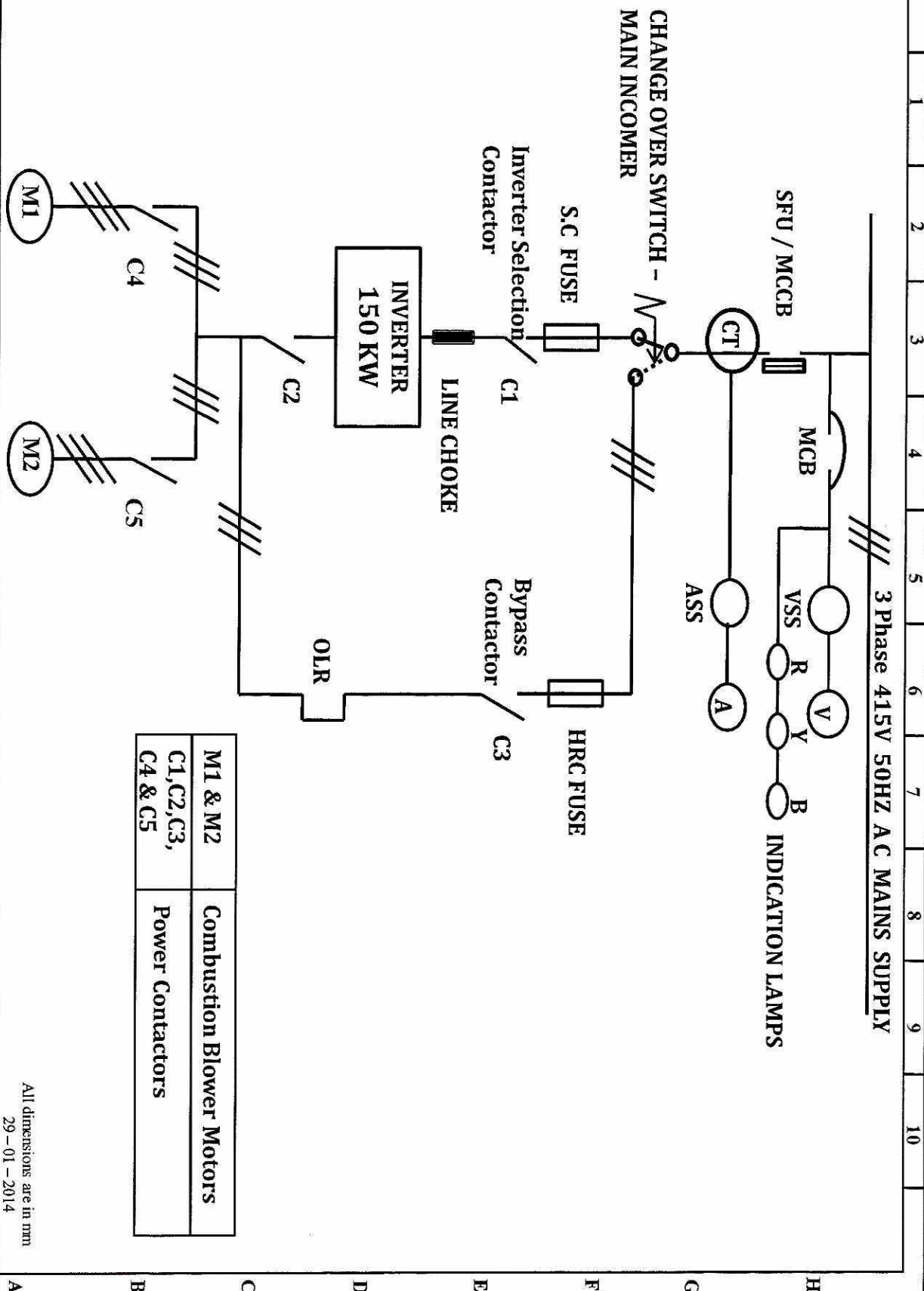
No.	BHEL Material Code and Description	Unit	Requirement		
			Quantity	Delivery	
06	BHEL Material Code : SP3005100251 ----- 150 KW AC VARIABLE SPEED DRIVE WITH PANEL AND ACCESSORIES AS PER THE ENCLOSED SPECIFICATIONS.	Nos.	01	1.000	30/04/2014
	Foot Note :: ----- 1. Supplier should mention their remarks in the ANNEXURE for each point. Any Deviation from the the specification should be mentioned without fail. 2. After placement of P.O, drawing should be sent (within a week period) and prior approval should be taken before start manufacturing. 3. Dispatch clearance can only be given after inspection of the drive at supplier's work. 4. This tender is floated on a TWO PART BID SYSTEM hence you are requested to follow the instruction given in the annexure A, B, & C. 5. Annexure B & C duly completed must be sent back along with part I of your offer.				

ANNEXTURE

S.No	BHEL'S SCOPE	SUPPLIER'S SCOPE	REMARKS
1	<p>Capacity of Inverter : 150 KW</p> <p>Current (Rated Output) : 280 Amps</p> <p>Input Voltage : 415V, 3 Phase AC \pm 10%</p> <p>Input Frequency : 50 Hz \pm 5%</p> <p>Output Voltage : 0 to input voltage with voltage & frequency variation step less.</p> <p>Inverter shall be latest version and of IGBT model with microprocessor based electronic circuit.</p> <p>The panel shall be CRCA 2 mm sheet fabricated enclosure (free standing type) having IP 42 protection. The bottom plate of the panel must be of removal type.</p> <p>The Inverter panel shall be with the following accessories :</p> <p>280 Amps rating 3 pole SFU of M/s Siemens or M/s GE or M/s BCH make for input power supply.</p> <p>3 Nos. semi conductor fuse for the Inverter protection.</p> <p>Once the acceleration parameters is set, it shall be possible to operate this as starter with ON/OFF push buttons.</p> <p>Cooling fans for Panel cooling.</p> <p>3 Nos. of LED type phase indicating lamps for R, Y and B phases.</p> <p>Power and control contactors shall be of Siemens Make.</p> <p>Suitably rated control transformer with 230V AC secondary for auxiliary power supply.</p> <p>Suitable rated 2 pole MCBs for primary and secondary Protections for the control transformer to be provided and fuses not required.</p> <p>Power and Control cables shall be copper cables.</p> <p>Routing of electronic and signal cables to be separated from power and control cable.</p> <p>Inverter drive input supply cables and output cables should be routed separately.</p> <p>Selection of individual blower with two way selector switch to be provided</p> <p>The following meters & facilities shall be provided on main panel door for each motor.</p> <p>Digital/Analog type output frequency and RPM meter.</p> <p>Digital /Analog type input and output Voltmeter with selector switch.</p> <p>Digital/Analog type output Ammeter with selector switch.</p> <p>The meters are of AE/MECO/RISHAB make and selector switches are of SIEMENS/TECHNIC/KAYCEE/L&T/SALZER make.</p> <p>Illuminations LED type push buttons for start/stop/fault, reset.</p> <p>Indication for Inverter on/off & Inverter trip.</p>		
2			

ANNEXTURE

S.No	BHEL'S SCOPE	SUPPLIER'S SCOPE	REMARKS
	On/Off and raise/lower push buttons to be provided. The Inverter panel shall be with the following protections.		
	Electronic Overload Relay		
	Current limiting		
	Stall prevention		
	Instantaneous over current trip		
	Earth fault		
	Digital display for setting and adjustment		
	Over speed protection		
	Instantaneous power failure i.e., Power fail safe facility must be provided.		
3	It should have built in noise filter to prevent near by electric / electronic systems from mal functioning.		
4	Constant V/F, variable torque, automatic torque boost, vector control and automatic energy saving control.		
5	Inverter shall be of latest type and supply of spares should be possible for minimum 5 years.		
6	Incase of power failure, the last run frequency memory should be stored and when the drive is restarted after power resumption, the motor should run at the last run frequency.		
7	Drive healthy output contact 1 No. and 2 Nos. of relay output contacts (2 Amps, 240VAC) shall be provided.		
8	Local and remote on/off and raise / lower push buttons are required for this application.		
9	The Panel should have INVERTER BYPASS facility. The panel should have suitably rated power contactor. Power changeover switch for LINE/INVERTOR and a key selector switch for line/invertor selection must be available.		
10	Commissioning should be done by the supplier.		
11	Drive should run as per the schematic drawing attached.		
12	Communication provision between PC and Drive should be available (with licensed communication software and communication cable, such that all the parameterization and programming can be done from the PC)		
13	All necessary operating, maintenance manuals and as built drawing should be sent along with dispatch of the material.		
14	This drive is required for COMBUSTIN BLOWER in Rotary Hearth Furnace.		



M1 & M2	Combustion Blower Motors
C1, C2, C3, C4 & C5	Power Contactors

All dimensions are in mm
29-01-2014

Drawn by: K. RAMESH KUMAR	Description: SINGLE LINE DIAGRAM FOR 150 KW INVERTER	HME / SSTP - 2014: BHBL - TRICHY
Approved by: G. VIGNESH	Equipment Name: RHF COMBUSTION BLOWER	REV: Page: 1 / 1

Annexure-A

Important Note to Tenderers - for TWO BID system (including REVERSE AUCTION)

(Page No. 1 of 4)

1. This Tender is floated on TWO-BID System.
 - A. Tenderers are requested to submit their Offers in TWO-BID basis, viz.
 - a. Part I .. Technical and Un-Priced Commercial Bid
 - b. Part II .. Price Bid
 - B Both the above Bids are to be submitted (or to be made available) before 14.00 hours (Indian Time) on Tender Due Date, as detailed under Para 3 below. **Tenders received after 14.00 Hrs. on the Tender Due Date, shall not be taken into consideration, irrespective of the mode of dispatch.**

2. Above Bids (Part I and Part II) are to be submitted in sealed-covers as detailed below:

A. Technical and Un-Priced Commercial Bid :

- a. Shall contain complete Scope of Supply with all Technical details, Specifications, Delivery Schedule, Delivery Terms, Payment Terms, Offer Validity, Taxes & Duties and other Commercial Terms & Conditions.
(Also please refer Clause No. 5 – General).
- b. Price columns are to be strictly filled-in only as ‘QUOTED’:

Enq. Sl. No.	BHEL Matl. Code / Description of Material.	Quantity with Unit Name	Unit Rate Rs.	Total Price Rs.
..	QUOTED	QUOTED
- c. Shall contain Point-wise confirmation for all Enquiry Clause Nos., TDC Clause Nos., and other attachments, if any.
- d. If any deviation is taken on Technical and / or Commercial points, the same shall be clearly highlighted in the Offer with Enquiry Clause No(s). and its attachments. Otherwise, it shall be construed by BHEL that the Tenderer is complying with all Enquiry Clauses in full.
- e. Any request for modification / change of Technical / Commercial points shall be entertained only before they are frozen.

B. Price Bid:

- a. Shall contain following details **only**:

Enq. Sl. No.	BHEL Matl. Code / Description of Material.	Quantity with Unit Name	Unit Rate Rs.	Total Price Rs.

- b. Wherever required / possible, Break-up-Price details are to be furnished.
- c. This Bid shall NOT contain any Technical and/or Commercial Conditions.
(If indicated, such terms shall not be taken into consideration).

Annexure-A

Important Note to Tenderers - for TWO BID system (including REVERSE AUCTION)

(Page No. 2 of 4)

3. **Details for submitting the Offer:**

A. **Cover No.1 – Technical and Un-Priced Commercial Bid :**

- a. Put the Technical & Un-Priced Commercial Bid inside Cover No.1 seal it.
- b. Mark Cover No.1 :
“Part-I -- TECHNICAL and UN-PRICED COMMERCIAL BID”
Tender No., Tender Date, Tender Due date, Address of Tenderer.

B. **Cover No.2 -- Price Bid :**

- a. Put the Price Bid inside Cover No.2 and seal it.
- b. Mark Cover No.2 :
“Part-II - PRICE BID”
Tender No., Tender Date, Tender Due date, Address of Tenderer.

C. **Cover No.3 -- Techno-Commercial Bid & Price Bid :**

- a. Put Cover No. 1 and 2 inside Cover No.3 and seal it.
- b. Mark Cover No. 3, with Tender No., Tender Date, Tender Due date, Address of Tenderer.
- c. Address the Cover No.3, to ::
Purchase Executive,
BHEL/SSTP,
Tiruchirapalli-620014, INDIA.

4. **Tender Opening:**

- A. On the Tender Due Date, Technical and Un-Priced Commercial Bid (Ref: 1.A.a. and 3.A. above), shall alone be opened, at the pre-fixed time, in presence of Responded Tenderers / their Authorized Representative, who may like to be present for Tender opening.
- B. Clarifications / Confirmations, if any, required by BHEL for Technical / Commercial evaluation, shall be sought from Bidders before opening the Price Bid.
- C. Price Bid of Technically suitable Bidders alone shall be opened, on a pre-determined date and time, in presence of the Responded Tenderers / their Authorized Representative, who may like to be present for such opening.

5. **General:**

- A. Incomplete Offers shall be liable for rejection.
- B. Fixed Price:
Bidder shall quote only Fixed Rate / Price and not subject to any escalation whatsoever during the period of Bid Validity and execution of Purchase Order. Any Bid with adjustable or price variation clause shall be treated as ‘Non-Responsive’ and liable for rejection. Prices shall be written both in numbers and words. In the event of any difference, the price in words shall be valid and binding. Unit Rate shall only be considered as correct and valid, which shall be taken for further consideration.

Annexure-A

Important Note to Tenderers - for TWO BID system (including REVERSE AUCTION)

(Page No. 3 of 4)

- C. Taxes and Duties:
All Taxes / Duties, if any, payable extra over and above the quoted rate, shall be specifically indicated in the Un-Priced Bid, failing which the quoted rates shall be considered as '**all inclusive**'.
- Offer shall carry clear details of Excise Tariff Heading No. and applicable Rate of ED / ST (along with Rate of Cess, if any).
- D. Validity of Offer:
Offer shall be kept valid for acceptance for a period of 60 days (sixty days) from the date of opening of the Technical & Un-Priced Bid.
- E. Terms of Payment:
Refer annexure B.
- F. Liquidated Damages, Risk Purchase and Warranty:
Refer annexure B
- G. Evaluation of the Offers shall be on the basis of 'To-Door Cost at SSTP' (NET Cash outflow to BHEL)
- H. BHEL reserves the right:
- a. to increase or decrease the tendered quantity(s) and split such quantities, for all or part of the Enquiry items, among more than one Tenderer based on commitments, requirements and capability of the Vendor(s), and finalise the Tender accordingly.
 - b. ~~to finalise order on Public Sector Enterprises under Price-Preference facilities as admissible in the existing policy.~~
 - c. to reject any Tender due to unsatisfactory past performance in the execution of a Contract.
 - d. **to resort for a REVERSE AUCTION (RA), i.e. ON-LINE BIDDING THROUGH INTERNET**, instead of opening the Sealed Price Bid submitted earlier, which shall be decided after evaluation of **TECHNICAL and UN-PRICED COMMERCIAL BID**
- I. **In case BHEL decides NOT to resort for RA, Price Bids and Price-Impacts, if any, already submitted by Bidder and available with BHEL, shall be opened, as detailed under Point 4 above.**
- J. **Information and General Terms and Conditions governing RA, are detailed below**

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).

Annexure-A

Important Note to Tenderers - for TWO BID system (including REVERSE AUCTION)

(Page No. 4 of 4)

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 (annexure IV) 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 noncompliance 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, (Annexure VII) 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.

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Annexure – B.
PAYMENT TERMS

Vendor Code:	Vendor Name:	
Tender No.:	Tender Date:	Tender Due Date:

IMPORTANT NOTE TO SUPPLIERS:	
If materials are receivable at Stores/Trichy <u>without PBG</u>	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.
If materials are receivable at Stores/Trichy <u>with PBG</u>	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials and against 10% PBG valid for the warranty period.
Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of Techno-commercial bid opening) + 6% will be loaded for the period of relaxation sought by bidders.	

Payment through bank	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.

Liquidated Damages / Penalty
a. 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.
b. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.
c. 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).

Guarantee / Warranty Period
Normally No deviation permitted and the deviated offers are liable for rejection.

Performance Bank Guarantee
Normally No deviation permitted and the deviated offers are liable for rejection.

BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.

KINDLY PROVIDE FOLLOWING INFORMATION, IN CASE OF REVERSE AUCTION TO BE CONDUCTED

NAME OF THE PERSON:

MOBILE NO. :

LAND LINE NO. :

FAX NO. :

EMAIL ID :

Annexure – C.
Commercial Conditions

Vendor Code:	Vendor Name:		
Tender No.:	Tender Date:	Tender Due Date:	

Sl. No.	Commercial Terms	Accepted	If Not accepted , give details
C 1.	<u>Delivery Terms:</u> Free delivery at BHEL/SSTP Stores. (including Packing, Forwarding, Freight and Insurance charges)		
C 2.	<u>Payment term :</u> 100% direct payment after 45 days from the date of receipt and acceptance of materials		
C 3.	Liquidated damages @ ½% per week subject to maximum of 10% of the order value shall be applicable for delay in deliveries		
C 4.	<u>Delivery:</u>	<u>indicate no. of weeks</u>	
C 5.	<u>Validity of Offer</u> - 60 Days from the Date of Tender Opening.		
C 6.	<u>Guarantee certificate:</u> shall cover total period of 18 months from date of dispatch or 12 months from the date of actual usage of the material whichever is earlier		
C 7.	<u>Erection and Commissioning(if applicable)</u> Erection / commissioning charges if any has to be mentioned in the offer or else it will be assumed that Erection/ commissioning will be done at free of cost	<u>Pl indicate applicability</u>	
<u>Remarks, if any (attach additional sheet, if required) :</u>			

Sl. No.	Commercial Terms	Vendor to fill in
C 8.	a. Excise Duty Tariff Heading	
	b. Excise Duty (%)	
	c. CESS on ED (%)	
	d. Total of ED and CESS (%)	
C 9.	a. TVNAT (%)	
	b. CST (%)	
C 10.	Other Cost (if any) - % (or) Rs.	
C 11.	Are you Micro/Small/Medium Industry?	Yes / No.
	If YES, please furnish MSM Regn. No. along with a copy of MSM Certificate	MSM No. :
		MSM Certificate Enclosed : Yes / No

Signature with Date	Seal