



## Bharat Heavy Electricals Limited (Seamless steel Tube Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

<b>TITLE:</b> <b>SUPPLY OF 75 KVA CAPACITY ENERGY SAVER</b>	Phone: +91 431 257 8439 Email : pcsn@bheltry.co.in Web : <a href="http://www.bhel.com">www.bhel.com</a>
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<b>Reference Number: 9350505E</b>	<b>Date: 24/04/2015</b>	<b>Due date for submission of application: 24/04/2015</b>
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- A. BHEL/SSTP, Trichy is looking for vendors to supply OF 75 KVA CAPACITY ENERGY SAVER**  
**B. Important Note to New Vendors**

The new vendors will be required to furnish the following documentary proof/ information (whichever applicable) 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.**

**"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 ) 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 bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents".**

Purchase officer / Purchase /SSTP  
Phone: 0431-257 8439.  
Mail: pcsn@bheltry.co.in



**BHARAT HEAVY ELECTRICALS LIMITED**  
 (A GOVERNMENT OF INDIA UNDERTAKING)  
 SEAMLESS STEEL TUBE PLANT  
 TIRUCHIRAPALLI - 620 014.  
 TAMILNADU (INDIA)

PHONE : 0431-2578480/8491  
 : 0431-2578406/8419  
 : 0431-2578568  
 FAX : 0431-2576828

TIN : 33243560005  
 CST. No. : 239383  
 Dated : 11.06.1991

Corp. Identity No:  
 L74899DL1964GOI004281

**PURCHASE ENQUIRY**

VENDOR CODE 23071	ENQUIRY NUMBER 9350505E	ENQUIRY DATE 03/04/2015	ENQUIRY DUE DATE 24/04/2015	No. OF ITEMS 01
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Office Copy  
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- 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 will not be considered.
  5. Late Tender(s) is/are liable for rejection.
  6. Offer(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
	BHEL Material Code : SP2002402450 ----- 75 KVA CAPACITY ENERGY SAVER  DETAILED SPECIFICATIONS ATTACHED IN THE ANNEXURE	Nos.	01 4.000	16/09/2015
	Foot Note :: ----- 1. Any deviation from the specification should be mentioned in the offer. 2. supplier should submit necessary catalogues along with the offer. 3. Supplier should fill the annexure attached.  THIS TENDER IS FLOATED ON A "TWO-PART" BID SYSTEM AND Annexure B & C duly completed must be sent back along with part I of your offer. 1) KINDLY QUOTE YOUR RATE ON DOOR DELIVERY BASIS DULY ABSORBING, PACKING, FORWARDING, FREIGHT AND INSURANCE CHARGES. 2) KINDLY OFFER WITH MINIMUM DELIVERY PERIOD. 3) CONFIRM YOUR ACCEPTANCE FOR OUR STANDARD PAYMENT TERMS OF 100% PAYMENT AFTER 45 DAYS ON RECEIPT SUBJECT TO ACCEPTANCE OF MATERIALS. 4) MENTION THE ED, TNVAT/CST ETC. IN THE OFFER LETTER WITHOUT FAIL. 5) YOU ARE REQUESTED TO SEND YR OFFER THRO OUR FAX NO 0431 2576828 OR E-MAIL ID pcsn@bheltry.co.in FOLLOWED BY THE ORIGINAL THRO POST/COURIER.  "MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (five 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 ) 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 bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents".			

**IMPORTANT NOTE :**

Delivery Terms : "Free Delivery at BHEL-SSTP STORES" is preferable.  
 Payment Terms : 100% payment after 45 days after receipt and acceptance of materials by BHEL.  
 Terms and Conditions of Tender : Please see reverse.  
 The Technical Requirements/Specification Details/Quality Requirements/Commercial Terms & Conditions are clearly furnished in the Tender. If Deviation(s) is/are not explicitly brought out in the Offer, it will be construed that the Tenderer is complying with the requirement of BHEL in full without any deviation(s).

For and on behalf of  
**BHARAT HEAVY ELECTRICALS LTD.**

*(Signature)*  
**PURCHASE EXECUTIVE**

## 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.
..	..	..	<b>QUOTED</b>	<b>QUOTED</b>

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 90 days (ninety 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 to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders are to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "online sealed bid" in the Reverse Auction. Non submission of "online sealed bid" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue."

**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.

**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 without PBG**

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 with PBG**

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(if applicable)**

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.

**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> - 90 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.	Performance Bank Guarantee ( <u>if applicable</u> )		
C 8.	Acceptance Of General Terms & Conditions Printed On The Reverse Of Enquiry Page		
C 9.	<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		

C 10	a. Excise Duty Tariff Heading	
	b. ED and CESS on ED (%)	
C 11.	a. TVNAT (%)	
	b. CST (%)	
	Other Cost (if any) - % (or) Rs.	
C 12.	If Micro/Small/Medium Industry , please furnish a copy of MSM Certificate & Latest CA certificate	MSM No. :

Remarks, if any (attach additional sheet, if required) :

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

NAME OF THE PERSON:

MOBILE NO. :

LANDLINE NO. :

FAX NO. :

EMAIL ID :

Signature with Date	Seal

## Certificate by Chartered Accountant

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at  
..... is registered under MSMED Act 2006, (Entrepreneur  
MeMemorandum 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.5.0.1722(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

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
1	<p>SCOPE OF SUPPLY :</p> <p>Design, manufacture, testing and supply of indoor floor mounting cubicle type energy saving transformer with sheet steel enclosure of thickness not less than 1.6 mm of <b>75 KVA</b> capacity suitable for 3 phase, 415V, 50Hz power supply, for lighting load application conforming to the following broad technical specifications</p>		
2	<p>REFERENCE STANDARDS:</p> <p>2.1 IS 2147 - Degrees of protection of enclosure for low voltage switch gear.</p> <p>2.2 IS 694 - PVC insulated copper cable for working voltage up to 1100 V.</p> <p>2.3 IS 13947 - LT switch gear</p> <p>2.4 IS 13779 - Measuring Instruments (Digital)</p> <p>2.5 IS 8623 - Enclosure design for Low voltage panel</p>		
3	<p>WORKING CONDITIONS:</p> <p>3.1 Input voltage variable from 410 - 433 V at 50 Hz <math>\pm</math> 3 %.</p> <p>3.2 Surrounding temperature 22°C - 50°C and Relative humidity up to 95%.</p> <p>3.3 Atmosphere may be extremely dusty.</p>		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
4	<p>TECHNICAL REQUIREMENTS :</p> <p>4.1 The energy saving device shall be centralized and robust design for a life cycle of at least 15 Years, in-door installation, Bottom or top entry, Base frame mounting and air-cooled type.</p> <p>4.2 The Energy saving device shall be suitable for 3 Phase, 4 wire 415V AC system.</p> <p>4.3 The device shall feature pure sine wave, free from distortion, which ensures no lamp flickering and other related problems.</p> <p>4.4 The output voltage shall be maintained in the range of 374 V±2.5% using appropriate saving selector on-load duty provided and fixed as per the requirement.</p> <p>4.5 The device shall be provided with incoming MCCB/MCB for short circuit and over load protections.</p> <p>4.6 The device shall be provided with Multi Data meter with RS 485 port for transferring the data to the energy management application , 3 phase LED indicators and real time monitoring facility of 3Ph V, I,F, VA, KVA, KW, KWH, KVAR, (Min, Max, Avg Values) .</p>		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
	4.7 The load connected to the output of energy saver shall be allowed to vary from 0 to 100%.		
	4.8 The layout of components & wiring shall be easily accessible for inspection, fault rectification and components replacement.		
	4.9 The input and output terminations shall be accessible only when door of the panel is opened. All power and control terminals shall be neatly, clearly and permanently marked for easy identifications.		
	4.10 The enclosure shall be CRCA with thickness not less than 1.6 mm, compartmentalized design, provided with safe ventilation, lifting hooks and fixing frame-base channel.		
	4.11 The enclosure shall conform to IP 21 protection class and have two separate earthing terminals.		
	4.12 The enclosure shall be powder coated with Siemens grey RAL7032 shade		
	4.13 The Energy saving device shall generate 20 - 25% energy saving in HPSV, HPMV & FTL with copper choke and 10-15% energy saving in CFL, MHL & FTL with electronic choke.		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
5	CONSTRUCTION AND OPERATION REQUIREMENT:  5.1 ENERGY SAVER UNIT:  a. The energy saving in lighting application is achieved by voltage optimization method.  b. The high efficient energy saving transformer shall be dry type, vacuum pressure impregnated type, its loss should be less than 0.75%. The energy saving device should not be auto variac with motor arrangement as it leads to self power consumption and frequent maintenance  c. The energy saving transformer shall be class F/H insulation, provided with required voltage trappings.  d. The energy saving transformer should be dust-proof and vermin-proof and should be provided with louvres for natural circulation of air for ventilation purposes.  e. The energy saver should not reduce the existing power factor and it should not produce any harmonics in the system.  f. The tapping voltage shall be -10%, -7.5% and -5% with respect to 240V input supply.		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
	g. The Energy saving device shall be designed to with stand 125% of the rated current for an hour.		
	5.2 BILL OF MATERIALS:		
	<p>The energy saving device shall be in-built with brand new and reputed make of components and it should perform effectively without any problem. The supplier has to ensure the quality of the components and responsibility of replacing the faulty components at the free of cost during guarantee period.</p>		
6	DATA SHEET		
	Transformer shall be dry type : Vendor to confirm		
	Type of winding : Vendor to specify		
	Input voltage shall be 240V, 50Hz per phase		
	: Vendor to confirm		
	Output Tapping of the transformer(%tapping to be mentioned)		
	: Vendor to specify		
	Tap selection of the transformer (auto/manual)		
	:Vendor to specify		
	There should be provision for tap setting to be changed on-load		
	:Vendor to confirm		
	Class of insulation:Vendor to specify		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
	Type of cooling : Vendor to specify		
	Insulation breakdown voltage shall be 2kV for 1 minute		
	: Vendor to specify		
	Max withstanding voltage : Vendor to specify		
	Insulation resistance shall not be less than 12Mohm		
	: Vendor to confirm		
	% impedance : Vendor to specify		
	Design temperature : Vendor to specify		
	The device should be able to withstand temperature rise from 20 to 55°C : Vendor to confirm		
	No-load loss : Vendor to specify		
	Full load loss : Vendor to specify		
	The accuracy of the energy saver shall be close to 1%		
	: Vendor to confirm		
	Efficiency of the energy saving transformer should not be less than 99.25% : Vendor to confirm		
	Saving/Tap selector switch to be provided with the transformer		
	: Vendor to confirm		
	Type of overload protection provided		
	: Vendor to specify		
	Separate phase indicators to be provided by means of LED indication lamps : Vendor to confirm		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
	Multi-function meters to be provided on the energy saver with communication ports for real time monitoring and parameter recording : Vendor to confirm		
	The multi-function meters shall be of reputed make acceptable to BHEL : Vendor to specify		
	All components used in the energy saving device such as MCBs, MCCBs, current transformer, display units, relays, contactors and other control and field elements should be of reputed make acceptable to BHEL : Vendor to confirm		
	Input & output termination should be done through suitable terminal blocks/bus bars : Vendor to confirm		
7	TESTING: The following routine test has to be carried out at manufacturing/vendor facility before dispatch.		
	a. Visual inspection for dimensional and BOM.		
	b. No-load current and loss test.		
	c. Impedance voltage test.		
	d. Winding resistance measurement test.		
	e. Induced over voltage test.		
	f. HV test (2KV for 1 Mint).		
	g. Insulation resistance test.		
	h. Voltage ratio test.		

TECHNICAL SPECIFICATION FOR THE ENERGY SAVERS For indent no :S442-40034 dt 20/03/2015

Sl.NO	BHEL SPECIFICATION	Supplier Remarks	BHEL Comments
	i. Noise level test.		
	j. Functional test.		
8	DOCUMENTATIONS		
	1. Vendor shall supply 3 sets of following documents in hard copy:		
	a. Complete electrical drawing and schematics.		
	b. Operation & maintenance manual		
	c. Catalogues of bought out items (energy meter, digital display units , transformer etc)		
	d. Installation support guide (if any) for commissioning of the energy saver.		
	2. Vendor shall supply one set of all the above documents in CD (1 no)		
9	GENERAL		
	1. Vendor shall visit BHEL for assessment & discussion with the respective shop maintenance Engineers before quoting the offer.		
	2. The vendor shall install the energy savers at site and provide commissioning assistance if required.		
	3. Pre despatch inspection of panel before 15 days should be informed and GA drawings with Bill of Materials are required for approval before manufacturing the panel.		
	4. The offer has to be submitted in TWO PARTS namely Techno commercial Bid and Price Bid		

## TERMS AND CONDITIONS OF ENQUIRY

01. **OFFER**
  01. Each Tender shall be sent in double cover. Inner cover shall be sealed with Tenderer's distinctive seal and superscribed with correct Enquiry and Enquiry Due Date. The Outer cover shall only bear the address of this Office and shall not have any indication that a Tender is within. Two more Offers shall not be sent in one cover but the Offer against each Enquiry shall be sent separately to avoid confusion. Tender shall not be addressed to any individual's name but only by Designation.
  02. Tenders shall be free from CORRECTION AND ERASURES. Corrections, if any, must be attested. All amounts shall be indicated both in words and in figures. Where there is difference between the amount quoted in words and figures, amount quoted in words shall prevail.
  03. Rate(s) shall be net F.O.R./BHEL-SSTP STORES, inclusive of risk-in transit and remain valid for 60 days from the Enquiry Due/other Taxes / Duties.
  04. If any Sales Tax and / or Excise Duty and /or other Taxes/Duties is /are payable as extra to the quoted Rate, it shall be specifically stated in offer, failing which the Purchaser will not be liable for payment of Sales/Excise Duty/other Taxes/Duties.
  05. No voluntary revision of prices will be entertained after opening the Tender(s).
  06. Manufacturer's Name, Trade Mark or Patent No., if any, shall be specified. Illustrative leaflets giving technical particulars are required along with the Tender wherever necessary.
  07. Products with I.S.I. Certification Marks will be preferred.
  08. The Purchaser shall be under no obligation to accept the Lowest Tender or any other Tender. The Purchaser shall be entitled to accept or reject any Tender in part or full, without assigning any reason whatsoever.
  09. The Purchaser also reserves the right to allow the Purchase Preference Facilities to the Public Enterprises, as admissible under Government Policy. Amendments thereto from time to time.
  10. BHEL reserves the right to increase or decrease the Tender Quantity and split the Tender Quantity among more than one Tenderer and place Order accordingly in proportion, based on commitment, requirement and Supplier's capability in terms of delivery and quality.
  11. Lowest Rate received against Tender(s) need not be the technically acceptable L-1 Rate and BHEL reserves the right not to consider the same.
  12. BHEL reserves the right to negotiate or re-float the opened Tender, if L-1 Rate is not the lowest acceptable rate to them, inter-alia other reasons.
  13. BHEL reserves the right to negotiate the L-1 rate.
  14. BHEL may order on more than one Vendor at the lowest acceptable Rate.
02. **SAMPLES** : Wherever possible, samples shall be submitted separately whether specifically requested or not, so as to reach the Purchaser on or before the Enquiry Due Date. They shall be clearly marked with the Enquiry No. and Enquiry Date, on the cover to facilitate identification.
03. **PACKING AND MARKING** : The Seller shall arrange for securely protecting and packing the stores to avoid loss or damage during transit.
04. **TERMS OF PAYMENT** : 100% Payment will be made within 45 days of receipt and acceptance of materials at BHEL. Wherever required by the Purchaser, successful Tender must send the Operation and maintenance Manual(s), Test Certificate(s), Drawing(s) etc., for the materials ordered, along with the materials and a statement to that effect shall be made in the invoice. Failure to comply with this provision, will result in delay in payment of the Bill(s). Goods despatched either by V.P.P. or routing the documents through Bank, will not be accepted unless agreed to by the Purchaser.
05. **SECURITY DEPOSIT** : For purchase over Rs. 5000.00 the successful Tenderer or may be required to furnish a Bank Guarantee/Security Deposit for an appropriate value as determined by BHEL, through any of the Nationalised Banks / Scheduled Banks, who is a Member-Bank in BHEL's Consortium of Banks, which shall be intimated along with Purchase Order, at the discretion of BHEL.
06. **LIQUIDATED DAMAGES** : It is clearly understood among the parties to the Contract that TIME IS THE ESSENCE OF THE CONTRACT. Therefore, the delivery of goods specified in the Purchase Order shall be made within the time prescribed. Where the seller supplies or despatches the goods, beyond the delivery period specified, and the Purchaser will have no obligation to accept the goods. If accepted, Liquidated Damages at the rate of 0.5% (Zero point Five Percent) of the value of goods delayed, per week of delay, subject to a maximum of 15% (Fifteen percent) or part thereof, will be levied without prejudice to any other relief or compensation due to the Purchaser under any other conditions of the Contract.
07. **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 Seller, either the whole of the goods or any part, which the Seller has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and nearest available substitute thereof. The Seller shall be liable for any loss, which the Purchaser may sustain by reason of such failure to purchase(s), in addition to penalty at the rate mentioned in Clause No. 06 above.
08. **PREFERENTIAL DELIVERY** : 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, it shall be noted that in the event of an Order is placed on a higher Tenderer as result of this invitation of 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 the rate of the lowest acceptable Tender on the basis of final price. (F.O.R./BHEL-SSTP Stores) including all elements of Freight, Sales Tax, Duty(s) and other incidentals.
09. **GUARANTEE** :
  01. In the event of an Order, the materials notified in the Order shall be guaranteed for satisfactory performance against all manufacturing defects, faulty design and bad-workmanship, etc. The liability under Seller's Guarantee Certificate shall cover a total period of 18 (Eighteen) Months from the date of despatch and 12 (Twelve) Months from the date of actual usage of the material(s) whichever is earlier. A Guarantee Certificate to the above effect shall accompany the despatch documents. In case of staggered delivery, the Guarantee Certificate shall accompany the despatch documents each time.
  02. **Performance Bank Guarantee** : Wherever required, BHEL shall request the successful Tenderer to execute a Performance Bank Guarantee, covering the standard Guarantee Terms of BHEL, through any of the Nationalised Banks / Scheduled Banks, who is a Member-Bank in BHEL's Consortium of Banks, which will be intimated along with Purchase Order, at the discretion of BHEL.
10. **CENVAT CREDIT** :
  01. Please explicitly indicate the following in the Offer to enable us to avail CENVAT Credit.
    01. Excise Registration Number, Excise Control Code (ECC) Number,
    02. Central Excise Chapter Heading Number, Under which the goods will be cleared,
    03. Present Rate of Excise Duty.
  02. In the event of an Order being placed, Excise Duty will be reimbursed only based on the Duplicate Copy EXCISE INVOICE (Transporter's Copy), Seller shall take acknowledgement from the authorised personnel/transporter, while delivering the goods, for having handed over the above Duplicate Copy.
  03. If the Seller is a First Stage Dealer / Second Stage Dealer / Depot / Consignment Agent / Importer / Importer-Agent, the Seller has to confirm that they are following the procedures in terms of the provisions of Central Excise Rules-2002, to enable BHEL to avail CENVAT Credit, under CENVAT Credit Rules 2002.
  04. All the time of submission of invoice(s), the Seller is required to furnish the following Certificate.  
"The Amount of Rs. (Rupees in words.....) claimed as CENVAT in the Bill, is in accordance with the provisions of the Rules in all respects and that the same has been paid to the Central Excise Authorities in respect of the materials covered by the Bill".
11. **GENERAL** : Any other conditions which might have been quoted by the Seller and are in contravention to the Terms prescribed in the Tender/Order and which have not been specifically accepted by the Purchaser, will not be applicable to the Contract and BHEL's standard Terms & Conditions shall only be applicable.
12. **IMPORTANT NOTE** :
  01. Purchaser reserves the right to place Repeat Order(s) at the same Price and Terms & Condition, within 36 (Thirty Six Months from the date of Order) or 24 (Twenty four) Months from the date of completion of supply, whichever is earlier. A specific confirmation in the regard shall only be applicable.
  02. In the event of quoting "Packing and Forwarding charges" extra in the offer, the "Packing Charges" and "Forwarding Charges" shall be separately quoted and shall not be combined. Also please note that no Excise Duty and sales Tax shall be payable on Forwarding Charges. In case this is not complied with corresponding Excise Duty and Sales Tax on packing Charges will not be paid.
  03. In the event of the Tenderer being a S.S.I. Unit, the tenderer shall indicate the S.S.I. Regn. No in the Offer and also enclose a copy of S.S.I. Registration Certificate issued by the Competent Authority.
  04. Tenderer is requested to furnish all the details called for in the Tender. In case any required data/information is/are not furnished in the offer, Purchaser reserves the right to assume the same for the purpose of evaluation/comparison and decide the Tender accordingly.