



**Ref. Enquiry No.: PW/PE/PG/HNP/E-3391/11**

**Dated: 20.01.12**

DUE DATE
17.02.2012
BY 2.00 P.M.

Dear Sirs,

**Subject: 2 x 520 MW HNPCL VIZAG TPS UNIT 1 & 2  
TENDER ENQUIRY FOR LT FIRE SURVIVAL CABLES**

**Our Ref: TENDER ENQUIRY NO: PW/PE/PG/HNP/E-3391/11, DT: 20.01.2012**

We are pleased to invite your offer in two parts strictly as per Clause-2.0 of the enclosed **"Instructions to Bidders"** in quintuplicate, in sealed covers for the under mentioned equipment/system.

BHEL invites offers from reputed Vendors (refer prequalification requirement and other requirements given in enquiry letter uploaded on our websites) for Design, Manufacturing, Inspection and Testing at manufacturer's works, proper packing and delivery of **LT XLPE Fire Survival Cables** to **2 X 520 MW HNPCL VIZAG TPS** site as per technical specification no: PE-TS-361-507-E005 and other details hosted on BHEL website.

1	LT FIRE SURVIVAL CABLES	As per Specification	
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Your best quotation/offer for the above requirement, in line with our terms and conditions, should either be delivered in person or sent by **COURIER/REGISTERED POST**, to the official inviting tender (s). It shall be the responsibility of the bidder to ensure that the tender is delivered on or before the **due date by 2 p.m.** Part-I bids shall be opened at **3 p.m.** on the due date in the presence of authorized representatives of the bidders, who may like to be present.

**TERMS AND CONDITIONS: - Please refer GCC Rev-04 which is available on [www.bhelpem.com](http://www.bhelpem.com). You are requested to kindly download the same.**

*Shamika*

SHAMIK GUPTA  
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POWER PROJECT ENGINEERING INSTITUTE,  
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Regd. Office:  
BHEL House  
Siri Fort  
New Delhi-110049



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1. Enquiry No., due date etc. must be legibly superscribed on the sealed envelopes as per clause no. 2.0 of "Instructions to Bidders".

2. Offers should be submitted in two parts in two separate sealed covers as follows:

Part-I: **TECHNO-COMMERCIAL BID**

Part-II: **PRICE BID.**

For detailed instructions, please see clause no. 2.0 of "Instructions to Bidders (Vol. -I A)"

3. Bidders shall submit their offers meeting the requirements of the following tender documents (enclosed) and other Terms and Conditions included in this Enquiry Letter:

- **ANNEXURE-I of GCC Rev. 04:** Letter to be furnished by the Bidders.
- **ANNEXURE-II of GCC Rev. 04:** Agreed terms & conditions i.e. compliance to NIT, BHEL GCC Rev-04 and SCC Rev. 00 of the project (Confirmation to be given by bidder in Part-I bid).
- **DEFINITION OF TERMS.**
- **Volume-I:** Comprising i) **Part-A:** Instructions to Bidders, ii) **Part-B:** General Commercial Terms & Conditions and iii) Special Conditions of Contract, if applicable. (Please refer our website [www.bhelpem.com](http://www.bhelpem.com))
- **Volume-II:** Comprising i) **Part-A:** General Technical Conditions and, ii) **Part-B:** Technical Specification.
- **Volume-III:** Schedules and Data Sheets.

All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.

4. Tenders shall be submitted strictly in accordance with the requirements of the above tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately. Technical deviations and Commercial deviations shall be furnished in separate sheets under the headings "**TECHNICAL DEVIATIONS**" and "**COMMERCIAL DEVIATIONS**" respectively, along with reasons for taking such deviations.

*Shamik*

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5. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
6. Unsolicited fresh/revised Price Bids shall not be entertained.
7. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/all tender(s) in part or full without assigning any reason whatsoever.
8. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be despatched only after Purchaser's/Owner's inspection at the hold points specified in the approved Quality Plan and issue of Material Despatch Clearance Certificate (MDCC).
9. In the event of any contradiction in the terms and conditions mentioned in the Special Conditions of the Contract and those mentioned elsewhere, stipulations mentioned in the Special Conditions of the Contract shall prevail.
10. Tenders and all correspondence there of, shall be addressed to the undersigned by name & designation and sent at the following address:

<b>Mr. SHAMIK GUPTA, ASST. ENGR</b> <b>M/s Bharat Heavy Electricals Ltd.,</b> <b>Project Engineering Management,</b> Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 <b>Kind Attn: Shamik Gupta/ PG-I-I</b> <b>E-MAIL: <a href="mailto:shamikgupta@bhelpem.co.in">shamikgupta@bhelpem.co.in</a></b> <b>Ph. No. 0120-4368949</b>	<b>Mr. D. SAHA, SDGM</b> <b>M/s Bharat Heavy Electricals Ltd.,</b> <b>Project Engineering Management,</b> Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 <b>Kind Attn: D. SAHA/PG-I-I</b> <b>E-MAIL: <a href="mailto:dsaha@bhelpem.co.in">dsaha@bhelpem.co.in</a></b> <b>Ph. No. 0120- 4368717</b>
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11. Late tenders will be rejected.
12. **Reverse Auction: BHEL reserves the right to finalize Prices by conducting RA or by conventional way of price bid opening (Refer Clause No. 15.0 of Volume-I, Part-A, GCC REV 04).**

*Shamik*

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**13. Delivery:-**

**AUG-2012**

Further, Drawings shall be submitted for approval within two (02) weeks of purchase order. Revised documents incorporating comments shall be submitted within 10 days of comment. Document approval shall be done within two (02) months from date of Purchase Order subject to submission of documents as per said schedule.

Any deficiency in documents submitted w.r.t agreed specification /comments from BHEL shall be treated as non-submission and no. of days delay in submission of complete documents, the approval process, on account of this would be reduced from delivery. The vendor shall be responsible for getting approval from BHEL as early as possible and BHEL will support the process, in full within above time frame terms & conditions.

**14. Bidder to note for compliance that this is conditional enquiry, the price bid (Part-II) opening/RA is subjected to**

- a) Approval of bidder by the BHEL.
- b) Approval of bidder by Customer. Same shall be taken up by us with customer based on the credentials/reference list. So you are requested to submit the following upgrading on or before technical bid Part-1 opening:-
  - i. Reference list indicating PO details, customer name, PO date, execution date etc.
  - ii. Performance certificate issued by the clients.

**15. PRE-QUALIFICATION REQUIREMENT:-**

Please find the TECHNICAL & FINANCIAL PRE-QUALIFICATION REQUIREMENT CRITERIA. All the bidders (including BHEL-PEM registered) are required to submit both Technical & Financial Pre-Qualification Requirement Criteria along with their offer. **Only those vendors, who fulfill these requirements, are eligible to participate in this tender.**

*Shank*

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**16. Payment Guidelines:**

In view of long pending submission of E1/E-2 forms by vendors to BHEL, we are Constrained to link vendor payment with submission of E1/E2 forms.

Following may please be noted:

- I) For last 10% payments, vendor to submit E1/E2 forms against forms C along with MRC.

**17. Please note that for technical bid, detailed offers are to be submitted including the following along with the Price schedule as per BHEL format enclosed with NIT:-**

- Acceptance of GCC Rev-04.
- Acceptance of Special Conditions of Contract (SCC Rev 02).
- GA Drawings, if any.
- Guarantee Clause – As per (General Conditions of Contract) GCC, Issue 00, Rev. 04.
- Pre-qualifying Requirement (PQRs) - a) TECHNICAL PQR b) FINANCIAL PQR.
- Technical Deviations and commercial deviation, if any.
- Along with your offer, please submit a copy of this letter (6 Pages) duly signed & stamped on each page as token of acceptance of terms & instructions conveyed.
- Un-Priced price format duly filled in 'Quoted' or 'Q' in each column/row for each project & package separately.
- Separate sealed price-bid envelope mentioning name of the project/package in BOLD LETTER on the top of each envelope.

Thanking you,

Yours faithfully,

For and on behalf of BHEL

**SHAMIK GUPTA**

**(ASST. ENGR/Project Group-I-I)**

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**2X520 MW VIZAG THERMAL POWER PROJECT**  
**ENQ. NO:- PW/PE/PG/HNP/E-3391/11, Dt:- 20.01.12**  
**BOQ-cum-PRICE SCHEDULE FOR LT FIRE SURVIVAL CABLE**  
**VENDOR NAME:-**

S. No.	Cable Sizes (no. of cores Cross section area (sqmm)	Order Quantity (meters)	Drum Length (meters)	Unit Ex-works Price (duly packed) (Rs./m)	Total Ex-works price (duly packed) (Rs./m)	EXCISE DUTY ON SELF MANUFACTURED ITEMS % (INCLUDING CESS) @ 10.30% (Rs.)	Central Sales tax @ %2 against form C / VAT (Rs.)	Freight charges including service tax (Rs.) if any	Total F.O.R Site Price (Rs.)
1	2C-95	1500	500			NIL			
2	1C-630	2000	500			NIL			
	<b>TOTAL</b>								

**ANNEXURE - I**

**Notes:**

- Quantities indicated above shall be known as Order Quantities. There shall be no upper limit on quantity variation till the completion of supplies for the Project.
- The bidder shall indicate the unit price of each type and size of cables listed above. The unit prices shall apply for adjustment of variation in quantity as stipulated above.
- Order Quantity shall be cleared for manufacturing along with LOI. However, manufacturing of the cables shall be taken up by the successful bidder only after approval of technical and quality documentation, and supply shall be completed within four months from the date of approval of documentation. Subsequent lots shall be cleared for manufacture based on progress of engineering and site requirements. A lead-time of three months shall be given for completion of supply for each subsequent lot from the date of clearance of the quantities.
- The standard drum length shall be 500meters as indicated above. Tolerance on individual drum length shall be  $\pm 5\%$ .
- Overall tolerance on total dispatched quantity of each size shall be (-) 2% and (+) 0%. Cables consumed for testing and inspection shall be to bidder's account
- For each individual cable size, one short length of not less than 200m may be accepted only in the final drum length to complete the supply (except where the total ordered quantity is one single drum length of 500m). The overall tolerance limits stipulated above shall continue to apply (in case short lengths are accepted).
- Bidder shall indicate unit price of cables inclusive of type test charges. No separate charges shall be payable for type tests.

*Short*



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**Enclosure:**

1. Enquiry Terms & Conditions
2. Price Format (Prices should be quoted in this format only)
3. BOQ & Technical Specifications
4. SCC of the project
5. Technical PQR
6. Financial PQR
7. PVC Factors & Formula

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		<b>PVC</b>	
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**ANNEXURE-II TO ENQUIRY NO. PW/PE/PG/HNP/E-3391/11, Dt:- 20.01.12**

**Price Variation Formulae**  
**2X 520 MW VIZAG TPP UNIT 1 & 2**  
**LT FIRE SURVIVAL CABLE**

1. Prices shall be variable as per following PVC formulae as per IEEMA. The price variation shall be limited to  $\pm 20\%$  of total ex-works actually supplied (cable size wise). PVC shall be limited for the metals for which rates published by IEEMA.

<b><u>LT FIRE SURVIVAL CABLE</u></b>				
<b>Cable Type</b>	<b>Conductor</b>	<b>Aarmor</b>	<b>Formulae</b>	
<b>Copper Conductor XLPE insulated Unarmored Cable</b>	<b>Cu</b>		<b><math>P = P_o + CuF(Cu-Cuo) + CCFCu(CC-Cco)</math></b>	<b>Table Ref as applicable as per IEEMA</b>

**Note:** a) For multi-core cables, variation in the cost of cable due to variation in the cost of XLPE will not be payable.

b) For Single-core cables, variation in cost of cable due to variation in cost of XLPE & Polymer (PVC) will not be paid.

**Quantity Variation:** Un-limited till completion of requirement of **2 X520 MW Vizag TPP Unit 1& 2.**

PVC shall be applicable for Lot-I and subsequent lots till completion of requirement of **2 X520 MW HNPCL VIZAG TPP Unit 1& 2**

1. Base date for prices (as per IEEMA):

**Initial Price:**

The first working day of month, one month prior to the date of tendering. Base date will be January' 12.

**Final Price:**

The first working day of month, one month prior to the date of delivery.

2. PVC shall be payable within agreed contractual delivery period. In case of delay is attributable to vendor, for the payment purpose, the PVC shall be calculated based on rates applicable as on the date of expiry of contractual delivery date or actual delivery date, whichever is beneficial to BHEL.

*Shanil*



Project: 2 X 520 MW HNPCL VIZAG TPP Unit 1 & 2

Price Variation Calculation Format - LT FIRE SURVIVAL CABLE

ANNEXURE-III TO ENQUIRY NO. PW/PE/PG/HNP/E-3391/11, Dt:- 20.01.2012

(A) Copper Conductor XLPE insulated Unarmored Cable

CABLE	2C X 95	1C X 630
A / UA		
Metal		
P <sub>0</sub>		
CuF	1.802	6.012
Cu		
Cu <sub>0</sub>		
CuF(Cu- Cu <sub>0</sub> )		
CCFCu	0.436	0.469
CC		
Cc <sub>0</sub>		
CCFCu(CC-Cc <sub>0</sub> )		
FeW		
Fe		
Fe <sub>0</sub>		
FeW(Fe - Fe <sub>0</sub> )		
Final Unit Ex - works price / Km (P)		
Price Increasing Max 20 %		

Shanik