

# BHARATHEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli-620014, India

**MAINTENANCE&SERVICESDEPARTMENT**

☎:(0431)2575916Fax:(0431)2521416e-mail:[paul@bheltry.co.in](mailto:paul@bheltry.co.in)



BHE:M&S:EC:05/2014-15

03.02.2015

## NOTICE INVITING TENDER

**Sub: DESIGN, SUPPLY & INSTALLTION OF SOLAR TUBE LIGHT / DAY LIGHT PIPE SYSTEM AT BLDG.77 IN BHEL – TRICHY – reg.**

Ref: Enquiry no: 9251500001,Dt:03/02/2015 Due date: 25/02/2015,14.00 Hrs.

Tender for the following work should be submitted in a sealed cover consisting of three inner sealed covers such as 1) EMD cover, 2) Technical bid cover & 3)Price bid cover, all super-scribing the name of work and enquiry number etc.

- 1) EMD cover shall contain requisite EMD in the form of DD. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover. Tender without EMD/one time EMD reference will be summarily rejected and the Technical bid &price bid shall not be considered.
- 2) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the Tenderer in all the pages. The tenderer has to quote most competitive rates for the items given in the Bill of Quantities in price bid.

The complete Technical bid and price bid alongwith requisite **EMD of Rs.10,000/-**for this work in the form of **Demand Draft only in favour of M/s.BHEL, Trichy** shall reach the office of the undersigned on or before 25/02/2015 at 14.00Hrs. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover.EMD in any other form will not be accepted.

Contractor

Accepting Officer

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The Technical bid will be opened on the same day at 14.30hrs. In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You/Your authorized representative may participate in the tender opening.

Clarification if any can be obtained from the undersigned.

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,  
Sr.Manager  
Planning & Contracts  
Maintenance & Services Dept

Encl:

- 1) NIT–Notice Inviting Tender (Consists of Preamble, Technical Bid & Price bid)

Tender should be addressed to: **THE SENIOR MANAGER,**

**MAINTENANCE & SERVICES/PLANNING,**

**2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,**

**HIGH PRESSURE BOILER PLANT,**

**TIRUCHIRAPPALLI - 620014,**

**TAMILNADU**

Contractor

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## NOTICE INVITING TENDER

01.	Name of work	DESIGN, SUPPLY & INSTALLTION OF SOLAR TUBE LIGHT / DAY LIGHT PIPE SYSTEM AT BLDG.77 IN BHEL – TRICHY
02.	Estimated Cost	Rs. 2.60 Lakhs
03.	Earnest Money Deposit	Rs. 10,000/-
04.	Duration of the contract	6 Months (From the date of commencement of the work)
05.	Last Date for Receipt of Tender	14.00 Hrs on 25.02.2015
06.	Date of Technical Bid Opening	14.30 Hrs on 25.02.2015
07.	Date of Price Bid Opening	Will be intimated to those who are qualified, separately.

The Tender documents can be downloaded from BHEL website([www.bhel.com](http://www.bhel.com))/govt. website([www.tenders.gov.in](http://www.tenders.gov.in)) at free of cost.

Tender document contains 6 Pages.(Technical Bid–5 Pages, Schedule for price bid–1 page).

ISSUING OFFICER

Contractor

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## TECHNICAL BID

NAME OF THE WORK: DESIGN, SUPPLY & INSTALLTION OF SOLAR TUBE LIGHT / DAY LIGHT PIPE  
SYSTEM AT BLDG.77 IN BHEL – TRICHY

Enquiry no: 9251500001,Dt:03/02/2015 Due date: 25/02/2015,14.00 Hrs.

### PRE-QUALIFICATION CRITERIA

The following eligibility criteria shall be complied to fulfill the Technical bid:-

Sl. No	Description	Vendor to confirm
1	The Bidder shall be OEM (or) an authorized dealer for the OEM. If the Bidder is an authorized dealer of the OEM, then valid 'Dealership certificate' in the name of the Bidder issued by the OEM is to be enclosed.	
2	The Bidder should enclose the following test certificates for the offered model: (i) Impact resistance test (ii) Solar Heat Gain Coefficient or BTU data	
3	The Bidder shall compulsorily offer Warranty period as follows: (i) 10 years for product warranty (ii) 5 years for installation warranty	
4	Performance certificate from minimum one organization in India, where similar kind of installation is done in the past three years should be attached.	
5	PAN No & IT Returns for the past Three Financial years to be submitted.	

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ISO9001

## **SCOPE OF SUPPLY &WORK:**

Sl.No	BHEL Specifications	BHEL comments	Vendor's reply
1	The Scope of work is to design, supply & installation of Solar Tube Light / Day Light Pipe system for installing it at the existing building - Bldg.77 (3 Nos. in a row)	Vendor to note	
2	The proposed system is to be installed for an completely closed air-conditioned building having the following dimensions: Length = 70 mtrs Width = 32 mtrs Height = 19 mtrs False ceiling at the height of 17 mtrs Roof lights presently used: 400W MH lamps No. of fittings & arrangement: 18 Nos., 3 Nos. per row, equally placed	Vendor to note	
3	Being a Pilot project for BHEL - Trichy, it is proposed to install the 'Solar lighting system' in only one row to observe the performance. Here the 'Solar lighting system' refers to a complete system equivalent to the existing 400W MH based lighting system installed in a row.	Vendor to note & confirm	
4	The System shall consists of the required no. of Dome, Transfer tube (with / without bent), Diffuser, weather proof adhesive material and other accessories.	Vendor to confirm	
5	The Dome shall satisfy the following specifications: (i) Material: Acrylic / Polycarbonate (ii) Injection Moulded with 3.2mm thickness with 530mm (minimum) dia	Vendor to confirm & to provide details	
6	The system shall reflects all the visible wavelengths equally well and shall not change the colour of the light that it reflects.	Vendor to confirm	
7	The Specular reflectance for visible spectrum (400 nm to 760 nm) shall be greater than 99%.	Vendor to confirm & provide the values	
8	Flash roofing base: Each dome shall be equipped with a flashing base made of one piece, seamless, leak proof, corrosion resistant material (preferably fibre reinforced polymer I ). The Flash roofing base is used as a support for the dome and the top end of the reflective tube.	Vendor to confirm & to provide details	

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Sl.No	BHEL Specifications	BHEL comments	Vendor's reply
9	Reflective Tube / Transfer tube: (i) The tube outer shall be made of metal sheet (preferably Aluminium) having a minimum thickness 0.5mm (iii) Based on the installation, the required reflective tube angle adaptors (like 90 deg bent) shall be used. (iv) The length of the tube shall be suitable for connecting the dome with the diffuser.	Vendor to confirm & to provide details	
10	Diffuser: a. Closed ceiling diffuser to match the false ceiling grid. Ceiling mounted box transitioning from round tube to square ceiling assembly, supporting light transmitting surface at bottom termination of tube 23.8 inches by 23.8 inches (605 mm by 605 mm) square frame to fit standard suspended ceiling grids or hard ceilings. b. Lens: Shall have prismatic lens type design to maximize light output	Vendor to confirm & to provide details	
11	The selection of product shall be such that on a 'Clear sky' day it shall give a minimum lux of 250 at the Floor plane, just below the fitting. Also the Bidder shall provide the Lumens per watt for the offered model (calculation shall be based on 'Clear sky' day and geographical location data pertaining to Trichy)	Vendor to confirm & provide the details	
12	After erection, the following parameters are to be demonstrated to declare successful commissioning: (i) Lux level just below the fitting, measured on a 'Clear Sky' day at Floor plane height. (ii) Water leakage (shall be checked by pouring water on the fitting on the roof top)	Vendor to confirm	

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## General Terms & Conditions:

- 1) The bidder has to quote only the lump sum amount for the design, supply & installation of Solar Tube Light / Day Light Pipe system for installing it at the existing building (Bldg.77) in BHEL - Trichy (for 1 row – 3 Fittings)
- 2) The Bidder if required, shall visit BHEL - Trichy and study the requirement, before giving the offer.
- 3) The Vendor shall make use of the EOT crane available in the subject building for the installation work at free of cost.
- 4) The Vendor should bring the necessary tools, tackles, etc., required for the installation work.
- 5) The Vendor shall make his own arrangement for the boarding & lodging of his personal during the above work.
- 6) As the work involves 'Working at Height' and on shop roof structure, the Vendor should use necessary PPE's and should obtain the necessary clearance certificate from BHEL safety & Civil department before commencement of the work.
- 7) The modifications required in the roof sheets, false ceiling etc., for installing the Day light system is completely in the scope of the Vendor.
- 8) The installation work is to be carried out in the shop floor where regular production activities are going on.
- 9) The installation should not cause any water leakage problem inside the building due to the installed Day light system.
- 10) The Diffuser is to be mounted at the level of the "false ceiling" and shall not project from the False ceiling surface.
- 11) The Bidder should give point-to-point confirmation for all the points.
- 12) The vendor should adhere necessary to the safety precautions while carrying out this work.
- 13) It shall be the responsibility of the contractor to cover their employees under PF & ESI act and proof for the same to be provided to BHEL on request.
- 14) **LD CLAUSE:** If the work is not completed within delivery date, then 0.5% of the order value will be deducted for each week of delay up to maximum of 15%.
- 15) EMD Rs 10,000/- (Ten Thousand Rupees only) is to be submitted along with offer and is to be remitted in the form of Demand Draft only in favor of M/S BHEL Trichy. EMD shall not carry any interest. OFFER WITHOUT THE EMD WILL NOT BE CONSIDERED FOR EVALUATION.EMD of the successful vendor will be converted and adjusted against the security deposit.

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16) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The rate of Security Deposit will be 10% of the contract value up to 10 Lakhs. Above Rs. 10 lakhs up to Rs.50 lakhs will be Rs.1 lakh + 7.5% of the contract amount exceeding Rs. 10 lakhs.

**Payment Terms:**

- 1) Payment will be made after completion of work on submission of invoice in triplicate duly certified by Engineer In Charge.
- 2) Tax deduction will be made from the bill at the prevailing rate as per the Government rules and regulations from time to time.
- 3) SERVICE TAX :
  - i) A copy of Service tax remittance challan for previous quarter should be submitted along with offer if the vendor is claiming service tax.
  - ii) If Contractor is exempted from service tax then a declaration that they are within the threshold limit should be submitted along with the offer.

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Contractor

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## SCHEDULE FOR PRICE BID

NAME OF THE WORK: DESIGN, SUPPLY & INSTALLTION OF SOLAR TUBE LIGHT / DAY LIGHT PIPE  
SYSTEM AT BLDG.77 IN BHEL – TRICHY

Enquiry no: 9251500001, Dt:03/02/2015, Due date: 25/02/2015, 14.00 Hrs.

Sl. No	Description	Quantity	Rate	Value
1	DESIGN, SUPPLY & INSTALLTION OF SOLAR TUBE LIGHT / DAY LIGHT PIPE SYSTEM AT BLDG.77 IN BHEL – TRICHY	1 Unit (Lump sum)		
<b>TOTAL</b>				

❖ **Taxes if any should be quoted Extra**

Detailed scope of work and other terms and conditions are specified in the Technical Bid Of the Tender.

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