



An ISO 9001  
Company

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

<b>TITLE:</b>  <b>Supply &amp; Installation of solar power pack system &amp; solar light system</b>	Phone: +91 431 2577331 Fax : +91 431 252 0719 Email : srchandran@bheltry.co.in Web : <a href="http://www.bhel.com">www.bhel.com</a> , <a href="http://tenders.gov.in">http://tenders.gov.in</a>
-----------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<b>Reference Number:</b> <b>Enquiry 2681100072</b>	<b>Enquiry Date:</b> <b>23.11.11</b>	<b>Due date for submission of quotation: 23.12.11</b>
You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order			

**TENDER FOR MANUFACTURE SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 1 kw SOLAR POWER PACK SYSTEM (46 nos.) AND SOLAR HOME LIGHT MODEL – IV (SHL) 252 nos. IN LATUR DISTRICT OF THE STATE OF MAHARASHTRA**

BHEL commercial terms & conditions with Technical specifications can be downloaded from BHEL web site <a href="http://www.bhel.com">http://www.bhel.com</a> or from the Government tender website <a href="http://tenders.gov.in">http://tenders.gov.in</a> (public sector units) Bharat Heavy Electricals Limited) under enquiry reference “ <b>2681100072</b> ”	
Tenders should reach us before 14:00 hours on the due date Technical bid will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.	Yours faithfully, <b>For Bharat Heavy Electricals Limited</b>  Manager / Capital Purchase/ Manufacturing



**ENQUIRY**  
(INDIGENOUS)

# BHARAT HEAVY ELECTRICALS LIMITED

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

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PHONE :2577331  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

429-002/A

Vendor Code :	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
Vendor Name :	2681100072 - 79	23.11.2011	23.12.2011
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	1 KWP SOLAR POWER PACK SYSTEM - SPECIFICATION ENCLOSED 1 KWP SOLAR POWER PACK SYSTEM	NO	46.000	46.00	31.03.12
20	SOLAR HOME LIGHT SYSTEM (SHL) - MODEL IV - SPECIFICATION ENCLOSED SOLAR HOME LIGHT SYSTEM-MODEL IV	NO	252.000	252.00	31.03.12

**General Note:**

1. Please submit your detailed offer in two part bid system i.e Part-I. Technical and commercial (unpriced bid) in a sealed cover Part-II. Priced offer in another separate sealed cover.

Both the covers shall be duly super-scribed with tender reference and due date of opening. These covers shall be put in a single cover duly super-scribed with tender reference and due date of opening and addressed to us.

2. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided Annexure-A. All the Annexures should be filled and submitted along with the technical bid (no row shall be left blank), else your offer is liable for rejection.

3. Offers with validity of less than 120 days and non-acceptance of LD, RP clause & Payment terms, will lead to rejection of submitted offer.

4. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

5. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.

6. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions (Annexure-A/Point no.12)

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  
S. RAMESH CHANDRAN  
Purchase / CP, SP & WC  
BHEL, TRICHY - 620 014



# BHARAT HEAVY ELECTRICALS LIMITED

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

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PHONE :2577645  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

2681100072 / 23.11.2011

10. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

**List of Attachments:**

1. Declaration form Annexure-I
2. Company Profile - Annexure-II
3. Work Experience - Annexure-III
4. Technical specifications - Annexure-IV
5. Financial Bid - Annexure-V
6. Commercial Terms and Conditions - Annexure-A

**Enclosures:**

"LD clause has to be confirmed without fail."

"Payment to vendors will be made only thro E-Payment mode"

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)  
**S. RAMACHANDRAN**  
Dy. General Manager / MM / MEG  
Purchase / CP, SP & WC  
BHEL, TRICHY - 620 014.



**TENDER DOCUMENT NO. 2681100072 DT:23.11.11**

**TENDER  
FOR MANUFACTURE SUPPLY, INSTALLATION, TESTING  
AND COMMISSIONING OF 1 kw SOLAR POWER PACK  
SYSTEM AND  
SOLAR HOME LIGHT MODEL – IV (SHL) IN LATUR DISTRICT  
OF THE STATE OF MAHARASHTRA.**



***BHARAT HEAVY ELECTRICALS LIMITED***

*(A Government of India Undertaking)*

TIRUCHIRAPPALLI – 620 014, Tamil Nadu

Phone : 0431 – 257 7331, Fax : 0431 – 2520719

Website : [http : //www.bhel.com](http://www.bhel.com)



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**Sr. No. 1 : TENDER NOTICE****BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI – 620 014**Website : <http://www.bhel.com>

Sealed Tenders are invited in two Bids (Technical & Financial) from manufacturers whose products are approved by MNRE's authorized test centres for supply, installation, testing and commissioning of 1 kw solar power pack systems – 46 Nos. and solar home light model IV (SHL) Systems – 252 Nos. with Comprehensive Maintenance Contract for 5 years including warrantee period at places anywhere at Latur District in the State of Maharashtra.

DETAIL	INFORMATION
Contact Person /Address	<b>NAME: Ramachandran S/DGM/MM</b> <b>ADDRESS: Capital Purchase 24 Building/IV<sup>th</sup> Floor</b> <b>BHEL/Trichirapalli-620014</b> <b>Tamil Nadu/India</b>
Email	srchandran@bheltry.co.in
Telephone	04312577331
Fax	04312520719
Notification (Reference) No. <i>If Available</i>	Enquiry No.2681100072 DT:23.11.11
BRIEF DESCRIPTION	TENDER FOR MANUFACTURE SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 1 kw SOLAR POWER PACK SYSTEM (46 nos.) AND SOLAR HOME LIGHT MODEL – IV (SHL) 252 nos. IN LATUR DISTRICT OF THE STATE OF MAHARASHTRA
Tender Type	5 years contract with free maintenance
SINGLE / TWO Part	Two Part
Published in Newspaper	Yes
Published On	
Tender Value in Rs	Not Applicable
EMD Value - Rs	Not Applicable
Document Cost- Rs	Not Applicable
Date of Issue of Notification -	<b>23.12.11</b>
Date of Pre Bid Meet if arranged	Not Applicable
Completed Forms to be submitted by -	On or before 14.00 Hrs on 23.12.11
Date of Opening of Bids -DD/MM/YY	At 14.30 Hrs on 23.12.11

BHEL reserves the right to reject any or all tenders without assigning any reason thereof.

Sd  
Dy.General Manager/Purchase



## **Sr.No.2: PROCEDURE FOR SUBMISSION OF TENDER DOCUMENT**

TENDER shall be submitted in **TWO ENVELOPE SYSTEM**. Bidder shall submit the sealed TENDER and documents in **TWO SEALED ENVELOPES** as below:

### **A) Envelope No.1: Technical Bid:**

The first envelope shall be clearly marked as "Technical Bid", **Name of work:** Supply, Installation, testing and commissioning with Comprehensive Maintenance contract for 5 years 1 kw solar power pack systems 46 Nos. and Solar Home Light Model IV (SHL) systems 252 Nos. at places anywhere at Latur District in State of Maharashtra. **TENDER No.2681100072 DT: 23.11.11** & Name and Address of Bidder. The envelope of Technical Bid shall contain the following documents.

1. Information on infrastructure for carrying out the Comprehensive Maintenance Contract (CMC) in Maharashtra state.
2. Original TENDER Document duly signed and stamped on each page.
3. The Tenderer must have to specify the name of the system for which he has quoted.
4. Undertaking as per the **Annexure - I** on Rs.100 stamp paper.
5. A) Copies of following documents duly attested by competent authority approved by Government.
  - i) Test Certificate for Solar Home Light Model - IV issued by MNRE or its authorized Test Centers, which must be valid during the contract period.
  - ii) Test Certificates, if any, for the 1 kw solar power pack.
5. B) Copies of following documents duly attested by competent authority approved by Govt. (Common for all Tenderers).
  - i. Latest Income tax return filing
  - ii. VAT registration certificate.
  - iii. Annual Turnover of last two years.
  - iv. Profile of the Company. (**Annexure – II, PART - A, B, C**)

### **vi. TYPE OF COMPANY:**

- a) If Bidder is a proprietary firm, Tender document should be signed by proprietor of the firm or power of attorney holder of the firm, in such case original or attested copy of the power of attorney should be enclosed in the envelope.
- b) If the Bidder is a partnership firm, it shall be signed by all the partners of the firm or by a partner holding power of attorney for the firm for signing the TENDER, in which case original or certified copy of the power of attorney shall accompany the Tender.



- c) A certified copy of the partnership deed and current address of the partners of the firm shall also accompany the Tender.
- d) If the Bidder is a Private Limited Co., the power of attorney holder of the Company shall sign the Tender. Original or certified copy of the power of attorney along with the certified copy of the Articles and memorandum of Private Limited Co. shall accompany the Tender.  
**Annexure - II.**
- e) If the Bidder is a Public Ltd Company, the power of attorney of the company shall sign the Tender. Original or certified copy of the power of attorney along with the certified copy of the Articles of memorandum of Public Limited Co. shall accompany the Tender.  
**Annexure-II.**
- vii. Attested certified copy of the work order / completion certificate indicating supply and installation of 1 kw solar power pack system and solar Home Light (SHL) Model - IV during the last 5 yrs. **Annexure – III.**
- viii. The Bidder should also specify the authorized person who will be transacting with BHEL, Tiruchirappalli (Power of Attorney holder).
- IX Annexure-A along with enquiry (commercial terms & conditions) should be filled and submitted along with the technical bid, else your offer is liable for rejection. (No row shall be left blank)

**B. Envelope No. 2 – Financial Bid.**

**“ENVELOPE No. 2 : - Financial Bid”, “Name of work : Supply Installation, Testing and Commissioning with Comprehensive Maintenance Contract for 5 years for 1 kw Solar Power Pack Systems 46 Nos. and Solar Home Light Model IV (SHL) Systems 252 Nos. at places anywhere in Latur District in the State of Maharashtra.**

**Tender Notice No. 2681100072 DT:23.11.11** (Please mention Serial No. of Tender) & Name and Address of Bidder and shall contain the following documents.

Financial Bid shall be submitted in the format provided in Tender document **Annexure – V.** The format shall be photo copied and then cost shall be written on photocopy only. **The cost shall not be written on original Tender document which is to be submitted in Envelope No.1.** The tenderer shall write cost per no. for each system in numbers and words.

In case of any discrepancies the cost quoted in words shall be final. if the Tenderer fails to write the cost per number of system, the tender may be rejected.

- C. **The Two Sealed envelopes, Envelope No. 1 “Technical Bid” (PART-I) and Envelope No. 2 “Financial Bid” (PART-II) shall be again put together in one common envelope and sealed. This sealed envelope shall be marked with Tender for Supply, Installation, Testing and Commissioning with Comprehensive Maintenance Contract for 5 years of 1 kw solar power pack systems 46 Nos. and Solar Home Light Model IV (SHL) Systems 252 Nos. at places anywhere in Latur District in State of Maharashtra”, Tender Notice No. 2681100072 DT:23.11.11** (Please mention serial No. of Tender) & Name and Address of Bidder.



**D. Opening of Tender:**

On the date specified in the Tender notice, the following procedure will be adopted for opening of the Tenders.

**Envelope No. 1**

First, Envelope No. 1, "Technical Bid" will be opened in presence of Bidder or their representative to verify its contents as per requirements.

**Envelope No. 2**

Envelope No. 2 "Financial Bid" opened only, if the contents of Envelope No. 1 "Technical Bid" are scrutinized and found to be acceptable to BHEL, Trichy. The date and time of opening of Financial Bid shall be informed to all technically qualified bidders only.

BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid (Envelope No.2), which will be decided after the technical evaluation only (Envelope No.1). Information and general terms and conditions covering RA are given in commercial terms and conditions (Annexure-A/Point no.12)

- E.** Tender will be valid only after scrutinizing and confirming all the requirements of the Tender document as mentioned under "Technical Bid" are fulfilled. Failure to submit the required documents may lead to rejection of Tender.
- F.** The right to ask for the complete information is reserved by BHEL.
- G.** Dy. General Manager, BHEL, Tiruchirappalli reserves the right to reject any or all Tenders without assigning any reason thereof.

### **Sr. No. 3 : SCOPE OF WORK**

#### **Scope of Work shall contain the following details :**

1. Supply, transport, installation, testing, commissioning with Comprehensive Maintenance Contract for a period of 5 years including warrantee period for 1 kw Solar Power Pack Systems 46 nos. and Solar Home Light Model IV (SHL) Systems 252 Nos. as per MNRE specifications at places anywhere at Latur District in the State of Maharashtra.
2. Manufacturing, supply and the installation of suitable support for the PV panels and other components whichever required with the accessories.
3. Civil work including grouting Systems as per the site requirements.
4. Supply of manual for Operation and Maintenance in two languages i.e. in English and in Marathi to BHEL. In addition the selected Bidder shall handover Marathi and English Operation and Maintenance Manual for all the systems to concerned users.
5. Commissioning of the entire systems and carrying out Comprehensive Maintenance of the all Renewable Energy Systems for the period of 5 years after successful commissioning of the systems.
6. Training the user for operation and maintenance of the system.
7. Any additional works not covered above, but necessary for the functioning of the system and required as per specification incorporated. The items of minor nature, which are not mentioned, shall be incorporated by the Bidder.
8. The Bidder shall be required to submit performance report to BHEL after commissioning on quarterly basis till completion of Comprehensive Maintenance Contract (CMC) period as per the design format provided by BHEL. It will be binding upon the bidder to visit/ inspect the system on quarterly basis after commissioning, verify the satisfactory performance of the system, obtain joint inspection report signed by the authorized person of users & bidder and attach it with the performance report as mentioned above. The bidder will submit the consolidated annual performance report to BHEL, which will contain an abstract of quarterly report submitted to BHEL.
9. Inspection of the material shall be carried out by BHEL or by BHEL authorized agency and tenderer shall make all necessary arrangement for the inspection.
10. BHEL at its discretion may visit contractor's factory for testing / inspection at any time during the period of Contract. The testing shall be carried out in manufacturer's premises and / or at Authorized Testing Centers of MNRE (List available on MNRE website) at the cost of Bidder.



## Sr. No.4 : GENERAL TERMS AND CONDITIONS

1. **The company should have at least 2 years of work experience in the manufacturing, supply, installation, testing and commissioning of 1 kw solar power pack system and solar home light system.** The products shall be registered with Ministry of New and Renewable Energy, Gol, New Delhi (MNRE). The Bidder should fulfill the eligibility criteria mentioned at Sr. No 4 point no.26 while quoting for the concerned system.
2. The manufacturer shall give the guarantee for all the parts of the system. The material used for the work shall be new & best quality available and work shall be carried out with best workmanship. The material used and works carried out shall be as per IS where ever applicable.
3. Tenders received after due date & time shall be rejected.
4. Manufacturers may send their queries in writing before TENDERING; the same will be clarified. The clarifications / modifications will be uploaded on BHEL Website only. No communication will be made in this regard. Normally queries will not be entertained after opening the tender.
5. It is responsibility of every Tenderer to visit BHEL website regularly, for any clarification regarding the Tender document / corrigendum.
6. Only Manufacturers are allowed to quote / participate in the Tender.
7. Tenderer has to produce original documents whenever asked by BHEL for verification.
8. Contractor will be responsible for any damage caused to any other installation during the course of work and he shall pay for the cost involved due to damage.
9. Contractor shall provide necessary test certificates for materials being used for the work. If other tests are required by BHEL, Contractors shall provide the facilities and bear the cost for the same. Power curve, if any, of all the panels erected by manufacturers shall be provided to BHEL.
10. The selected Bidder under this contract are bound to work on the guidelines provided by MNRE and BHEL from time to time. If the Bidder refuses to carry out the given work his PBG may be forfeited.
11. For all capacities of PV module as per MNRE policy the use of relevant IEC standards along with RFID is mandatory. Also the manufacturer has to make embossing on the frame of module which shall mention company's name & year of installation.
12. The selected Bidders (called Contractor) will provide the necessary training to the concerned users for the proper operation and maintenance within the performance guarantee period (5 years).
13. The meaning of the Comprehensive Maintenance Contract (CMC) means tenderer shall give the warrantee of systems for 5 years including warrantee period under the Contract. During the Warrantee/5year period, any defects and shortcomings in the work/function due to inferior quality of new parts / materials shall have to be replaced and reinstate the



system function by the Contractor without any extra cost to the users / BHEL. The contractor will maintain the system during CMC period at his own cost. Further the Contractor shall visit to all the supplied systems quarterly irrespective of any complaint and submit report to BHEL. The contractor shall attend the complaints and undertake the repairs within 15 days time, from the receipt of complaint from beneficiary institute / user.

14. It will be the responsibility of the contractor to ensure the satisfactory performance of all the Renewable Energy Systems.
15. Any of the discrepancy observed in specifications, the specifications specified by MNRE / BIS / BHEL will be final. In the event of dispute arising any time, related to this work and document, decision of BHEL or his nominee shall be final.
16. The Contractor shall provide appropriate tools and equipments to the workmen and ensure that those are in proper working condition and the workmen use the appropriate tools and take precaution **“please note that any accident to the work men / public / animals / property both movable and immovable will be entire and sole responsibility of the contractor and any proceeding arising out of the same will be at the contractors risk and cost. BHEL or its employees or any user shall not be responsible for any such incident”**.
17. The Bidder shall submit all documents as specified under requirement of “Technical Bid”. The document whichever mentioned shall be attested by specified competent authority as mentioned in Sr. No. 2) clause no. 5 - A) and 5 - B).
18. **The Bidder must quote the amount in figures and words only on photo copy of format given for financial bid. In case of discrepancies, the cost quoted in words shall be taken as final. In case the bidder fails to mention cost in words his tender may be liable for rejection.**

The Contractor shall comply with the provision of Contract Labour. (Regulation and abolition) Act 1970, Minimum Wages Act 1948, Payment of Wages Act. 1963, Workmen’s Compensation Act. 1961, the Contract Labour (Regulation and Abolition) Act, 1979 and all other related Acts and any modification thereof or any law relating there to and rules made there under from time to time.

19. BHEL shall not pay any interest on any amount, which is due.
20. The Bidder may quote for any one of the systems or for all the systems if he fulfills the criteria mentioned in the Tender document.
21. If any information / clarification on any condition of this Tender are required, Bidder may contact / write to BHEL, Tiruchirappalli.

22. **TECHNICAL SPECIFICATION:**

The technical specifications of Solar Home light Model - IV and 1 kw solar power pack system are given in **Annexure IV**.

23. **BIDDER TO STUDY CONDITIONS:**

Bidder shall study terms & conditions carefully. If the Bidder has any doubts about conditions, he may get it clarified before submission of the Tender. After submission of Tender no clarification will be entertained.

**24. INSPECTION:**

The Contractor shall inform the BHEL in writing when any portion of the work is ready for inspection giving him sufficient notice to enable them to appoint their representative to inspect the same without affecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the competent person from BHEL or BHEL authorized agency shall have certified in writing to that effect.

Approval of materials or workmanship or approval of part of the work during the progress of execution, if any, obtained from BHEL, will not take away the right of BHEL to reject the work which is alleged to be completed or to suspend the issue of certificate of completion until such alteration and modification or reconstruction have been effected at the cost of the Contractor, which will enable him to certify that the work has been completed to his satisfaction.

**25. MISCELLANEOUS:**

Rates shall be inclusive of all types of taxes including VAT, octroi, loading, unloading, transportation, sales tax, general tax and all applicable taxes. At later stage no letter in this regard shall be entertained. However the bidder will be fully responsible for payment of all applicable taxes and duties.

**26. ELIGIBILITY CRITERIA:****A. For Solar Home Lighting System, 1 kw solar power pack System**

1. a. The Tenderer shall submit attested copy of related test, which must be valid during the contract period of Solar Home Lighting System, approved by authorized Test Centre of Ministry of New and Renewable Energy (MNRE), Gol for quoting Home Lighting System.  
b. Only original manufacturers of the Solar Home Light – Model IV & 1 Kw Solar Power pack can quote..  
c. The manufacturers of Solar Photovoltaic system can also quote for 1 kw Solar Power Pack
2. The Tenderer must have installed any of the following quantities during last 5 year for quoting respective system.

Name of the System	Quantity
Solar Home Light – Model IV	52 Nos.
1 Kw Solar Power pack	9 No.

The tenderer shall submit supporting documents in support to their claim as mentioned above and also submit report about functioning of systems from users.

## Sr. NO. 5 : PAYMENT TERMS

BHEL will release payment for the systems. The payment will be released as under :

**a) System Payments:**

1. 90% of the total cost shall be paid after supply, installation & successful commissioning of the system and submission of joint inspection report duly certified by User and BHEL.
2. 10% of total cost will be released after submission of one-month performance report certified by user agency and Performance Bank Guarantee from Nationalized Bank of the equivalent amount valid for 5 years in favour of BHEL, Tiruchirapaali.

**b) Penalty for delay:**

In case the manufacturer / supplier fails to complete the work within the time period specified in the purchase order / contract placed by BHEL a sum equivalent to 0.5% of the work wherever applicable shall be deducted for each week of delay subject to a maximum deduction of 15% by BHEL.

**c) Return of PBG:**

1. The performance bank guarantee shall be returned after completion of 5 years CMC period from date of commissioning by order issuing authority.

**d) Bills:**

The Contractor shall submit all bills in 3 copies only on printed form with original signature & seal to BHEL, Tiruchirappalli.

**e) Price Variation:**

Under any circumstances for any reasons price escalation will not be considered by Order Issuing Organization.

**f) Jurisdiction:**

In case of any dispute arising during the documentation, implementation, commissioning, completion and CMC period, all the matter will be resolved under Tiruchirappalli Jurisdiction.

**h) Validity of Contract:**

The Contract shall remain valid from the date of issue of contract till the completion of the contract.

**Sr. No.6: DECLARATION**

**(On Rs. 100 stamp paper to be given by the Bidder)**

I / We, hereby declare that I / We have made myself / ourselves thoroughly conversant with the sub – soil conditions, local conditions regarding all materials and Labour of which I / we have based my / our rates of this work. The specifications, conditions and lead of materials on this work have been carefully studied and understood by me / us before submitting this Tender. I / We undertake to use only the best materials defined / approved by the Ministry of New and Renewable Energy (MNRE) GoI / BHEL.

The systems will be provided as per the specifications and guidelines issued by the Ministry of New and Renewable Energy/ BHEL. We are bound to adhere the guidelines issued by the Ministry of New and Renewable Energy / BHEL from time to time. We also hereby commit that if in future MNRE make any changes in the specifications of the systems the same will be incorporated in the present Tender projects. We hereby agree that the work will be executed within the cost of Tender to BHEL in the financial bid and there will be no escalation in cost for any reason thereof. We also agree that if we fail to complete the work and drop the work in middle, BHEL shall have right to recover the full amount from us. I / We shall accept any amendments made by BHEL from time to time during total project completion period including 5 years Comprehensive maintenance contract (CMC).

I / We am/are also committed that we will complete the work within stipulated time period specified in the work order for any work assigned by BHEL. We will not ask for any further time extension.

I / We am / are bound to work as per Tender and work Order Issuing Authority for this work with 5 years Comprehensive Maintenance Contract. In case of failure of the same, we shall be responsible for the action taken by competent Authority of BHEL resulting to ban to work in any of the BHEL Divisions.

I / We shall comply with the provision of Contract Labour. (Regulation and Abolition) Act 1970, Minimum Wages Act. 1948, Payment of Wages Act. 1963, Workmen's Compensation Act. 1961, the Contract Labour (Regulation and Abolition) Act, 1979 and all other related Acts and any modification thereof or any law relating there to and rules made there under from time to time. BHEL shall not be responsible in this regard.

Date:

Signature of Bidder:

Seal of Company

Place:

(Name: )

(Designation:)



## Annexure – II

**Sr. No. 7 : COMPANY PROFILE****PART – A :**

<b>A</b>	<b>Information</b>	
	Name of Company	
	Address of Head Office	
	Contact Person	
	Telephone	
	Telefax	
	E-Mail	
	No. of Branches (Dealers) and their addresses	
	Address for Correspondence	
	Contact Person	
	Telephone	
	Telefax	
	E-Mail	
<b>B</b>	Type of Company : (Please tick wherever applicable)	
	Sole Proprietorship	
	Private Limited	
	Limited Company	
	Joint Venture	
	Public Ltd Company	
	Others (Please Specify Status)	
<b>C</b>	<b>Business Management</b>	
	Attach Corporate Organisation Chart with Names	



<b>D</b>	<b>Total Number of Employees Employed</b>	
<b>1</b>	<b>At Head Office</b>	
<b>2</b>	<b>At Branch Office</b>	
<b>3</b>	<b>At Site</b>	
<b>E</b>	<b>Is Your Organisation a Subsidiary of Another Company</b>	<b>Yes / No</b>
	If Yes, to whom ?	
<b>F</b>	<b>Financial Capability</b>	
	<b>Annual Turnover of Last 2 Years (Attach Balance Sheets for last 2 years )</b> <b>Rs. in Lakhs</b>	
	Projected this year	
	Last Year (2010- 11) <b>Rs.</b> <b>Lakh</b>	
	One year before last year (2009 – 10) <b>Rs.</b> <b>Lakh</b>	
<b>G</b>	<b>Name and address of the bankers with Contact person and contact numbers</b>	
<b>H</b>	<b>Whether your company hold following certificates</b>	<b>YES / NO</b>
	<b>ISO 9001 – 2000</b>	
	<b>ISO 14001 – 1996</b>	
	<b>OHSAS – 18000 – 1999</b>	
	<b>If No, do you substantiate a need to have them</b>	<b>YES / NO</b>
<b>I</b>	<b>Whether your company had worked with the organization, which holds above certificates ?</b>	<b>YES / NO</b>
	<b>If Yes, Which Organisation</b>	
<b>J</b>	<b>Are there any Litigations / Court cases against your company ?</b>	<b>YES / NO</b>
	<b>If Yes, give details</b>	
<b>K</b>	<b>Any other Information that you want to give</b>	





## Annexure – III

**Sr. No. 8 WORKS EXPERIENCE**

Name of the Organisation :								
<b><u>LIST OF WORKS COMPLETED IN LAST 5 YEARS</u></b>								
Sl. No.	Name of the Project	Name & address of the client	Contact Telephone Numbers of the client	Name of the system	Value of work in Rs.	Start Date	Scheduled Finish Date	Actual Finish Date

Note : 1. If Actual finish date is beyond the Schedule Finish Date, please give reasons for the delay.

Note : 2. Attach relevant completion certificates document for works in last 2 years.

Authorised Signatory

Date :

Company Seal

## **Sr. No. 9 SPECIFICATIONS**

### **TECHNICAL SPECIFICATION FOR SOLAR HOME LIGHT SYSTEM**

- Definition : A Solar home system aims at providing solar electricity for operating lights and / or fan or energizing a DC operated portable TV set for specified hours of operation per day.
- Technical Specifications & General Specifications :

Model	Component	Specifications
Model – 4 4 Lights	PV Module	2 x 37 W or 1 x 74 W under STC
	Lamp	4 x CFL (9W/11W)
	Battery	1 x 12V, 75 AH. Tubular Plate, low maintenance type Lead Acid Battery or VRLA Gel Type.
	Other components	Control electronics. Module mounting hardware, Battery Box. Inter connecting wires/cables, switches, operation, instruction and maintenance manual.

**1. DUTY CYCLE :**

The system should be designed under average daily insolation of 5.5 KWh/sq.m. on a horizontal surface.

MODELS	AVERAGE HOURS OF OPERATION / DAY
Model – 4	4 Lamp, 3 – 4 Hours

**2. LAMP:**

- i. The lamps will be of compact fluorescent (CFL) type, either 4 – Pin or 2 – Pin types, with ratings of 9 W or 11 W. For the 4 – Pin type CFL, a suitable pre-heating circuit must be provided.
- ii. The light output from the lamp will be around 550 + 5 % lumens (for 9 W CFL) and 850+ 5 % lumens (for 11 W CFL).
- iii. The lamps will be housed in a weatherproof assembly suitable for indoor use, with a reflector on its back. While fixing the assembly, the lamp will be held in a base up configuration.
- iv. Maximum DC current consumption for an 11W CFL at 12 V will not exceed 1 Amp.
- v. The lamps will conform to relevant BIS standards.

**3. BATTERY:**

- a) Flooded electrolyte type, positive tubular plate, low maintenance lead acid battery, conforming to relevant BIS standards or gel type VRLA.
- b) The battery will have a minimum rating of 12V, 20-40 or 75 Ah (at C/10) discharge rate depending on Model.
- c) 75% of the rated capacity of the battery will be between fully charged and load cut off conditions.

**4. ELECTRONICS:**

- a) The inverter will be of quasi sine wave/sine wave type with frequency in the range of 20-35 KHz. Half – Wave operation is not acceptable.
- b) The total electronics efficiency will be at least 80%.
- c) No blackening or reduction in the lumen output by more than 10% will be observed after 1000 ON/OFF cycles (two minutes ON followed by four minutes OFF is one cycle).
- d) The idle current consumption will not be more than 10 mA. Electronics will operate at 12 V and will have temperature compensation for proper charging of the battery throughout the year.
- e) Necessary lengths of wires/cables and fuses will be provided.



**5. PV MODULE (S):**

- a) The PV module (s) shall contain mono / multi crystalline silicon solar cells. It is preferable to have certificate for the supplied PV module as per IEC 61215 (revised) specifications or equivalent National or International Standards. In case if the supplied PV module is not a regular PV module of the manufacturer and does not have certificate as per IEC 61215 (revised) specifications, then the manufacturer should have the required certification for at least one of their regular modules. Further, the manufacturer should certify that the supplied module is also manufactured using same material design and process similar to that of certified PV module.
- b) Power output of the module (s) under STC will be a minimum of 18W or 37W or 74W. In case of Model – IV & V either two modules of minimum 37 W output each or one module of 74 W output will be used.
- c) The operating voltage corresponding to the power output mentioned above will be 16.4 V.
- d) The open circuit voltage of the PV modules under STC will be at least 21.0 volts.
- e) The terminal box on the module will have a provision for replacing the cables, if required.
- f) A strip containing the following details will be laminated inside the module so as to be clearly visible from the front side:
  - Name of the Manufacturer or distinctive logo.
  - Model or Type No.
  - Serial No.
  - Year of make.

**6. ELECTRONIC PROTECTION:**

- a) Adequate protection is to be incorporated under no load conditions. e. g. When the lamp is removed and the system is switched ON.
- b) The system will have protection against battery overcharge and deep discharge conditions.
- c) Fuses will be provided to protect against short circuit conditions.
- d) A blocking diode preferably a Schottky type, will be provided as part of the electronics to prevent reverse flow of current through the PV module (s), in case such diode is not provided with the PV module (s).
- e) Full protection against open circuit, accidental short circuit and reverse polarity will be provided.

**7. MECHANICAL COMPONENTS:**

- a) Metallic frame structure (with corrosion resistance paint) to be fixed on the pole to hold the SPV module(s). The frame structure will have provision to adjust its angle of inclination to the horizontal between  $0^{\circ}$  and  $45^{\circ}$ , so that the module (s) can be oriented at the specified tilt angle.
- b) A vented, metallic / plastic / wooden box with acid proof corrosion resistance painted metallic box for outdoor use will be provided for housing the battery.

**8. OTHER FEATURES:**

The system will be provided with 2 LED indicators: a green light to indicate charging in progress and a red LED to indicate deep discharge condition of the battery. The green LED will glow only when the battery is actually being charged.

There will be a Name Plate on the system which give:

- Name of the Manufacturer or Distinctive Logo.
- Serial Number.

Components and parts used in solar home systems should conform to the latest BIS specifications, wherever such specifications are available and applicable.

The PV module (s)/systems will be warranted as per the clause given in section 7 of part – A of the Tender document. The manufacturers can also provide additional information about the system and conditions of warranty as necessary. The warranty card to be supplied with the system must contain the details of the system supplied as given below:

- 9) An operation, Instruction and Maintenance Manual in English and the local language will be provided with the solar home system. The following minimum details must be provided in the manual:
  - a) About Photovoltaic
  - b) About solar home system – its components and expected performance.
  - c) About PV Module.
  - d) About CFL
  - e) About Battery.
  - f) Clear instructions about erection of pole and mounting of PV module and lamp housing assembly on the pole.
  - g) About electronics.
  - h) About charging and significance of indicators.
  - i) DO's and Don'ts
  - j) Clear instructions on regular maintenance and trouble shooting of solar home system.
  - h) Name and address of the person or service center to be contacted in case of failure or complaint.

### TECHNICAL SPECIFICATIONS FOR 1 kwp SOLAR POWER PACK

Sl. No.	Item & Description	Quantity
•	<b>Solar PV Module Array – 1036 Wp (74 x 14 Nos.)</b> <ul style="list-style-type: none"> <li>➤ Rating 1036 W (74 Wp x 14 Nos. or equivalent)</li> <li>➤ Mono or Poly Crystalline silicon</li> </ul>	1 set
•	<b>Solar array junction box</b> <ul style="list-style-type: none"> <li>➤ Weather proof junction box</li> <li>➤ Blocking diodes</li> <li>➤ String indicators</li> </ul>	1 set
•	<b>Solar Array Mounting Frame</b> <ul style="list-style-type: none"> <li>➤ Fabricated in GI angle and square tube section</li> <li>➤ Manual tracking facility</li> </ul>	
•	<b>Battery Bank 24 V, 600 Ah</b> <ul style="list-style-type: none"> <li>➤ Lead acid, Tubular plate, Rating per battery 2 V, 600 AH x 12 Nos. (suggested), C/10</li> <li>➤ Typical Discharge Characteristic Curve as per IS : 1651-1991</li> <li>➤ Battery stand</li> </ul>	1 set
•	<b>Solar + Mains Charge Controller –</b> <ul style="list-style-type: none"> <li>➤ 24 V, 35A, MOSFET based PWM controlled.</li> <li>➤ Efficiency 92%</li> <li>➤ Indications – Solar ON, Charging ON, Battery Low, Battery State of charge, Mains ON</li> <li>➤ Protections – Battery over charge, Battery deep discharge, battery and solar array reverse connection, output short circuit.</li> <li>➤ Output Over/under voltage Output short circuit</li> <li>➤ 24V, 5 SMPS based mains charger</li> <li>➤ Manual changeover between solar &amp; mains charger</li> </ul>	1 set
•	<b>Inverter 1250 VA, 24 V</b> <ul style="list-style-type: none"> <li>➤ I/P 24 VDC, O/P: 230 VAC, 50 Hz</li> <li>➤ True sine wave power corrected output</li> <li>➤ Load regulation 2%, power factor : 0.8</li> <li>➤ Protection : Output overload, output short circuit, earth fault</li> <li>➤ Indications : Input and out put voltage and current, output short circuit / trip LED indications</li> <li>➤ Manual changeover to Grid in case of failure / Trip condition</li> </ul>	1 set
•	<b>DC + AC Distribution consisting of :</b> <ul style="list-style-type: none"> <li>➤ Battery isolator</li> <li>➤ Solar array isolator</li> <li>➤ Output isolator</li> <li>➤ Output AC On indication lamp</li> <li>➤ Energy meter for accounting the energy generated</li> </ul>	1 set
•	<b>Cabling &amp; Hardware</b> <ul style="list-style-type: none"> <li>➤ Panel interconnection; Battery inter connection; System wiring, Wiring up to distribution board</li> <li>➤ Wires of appropriate cross section – 'ISI' marked</li> <li>➤ All hardware for external applications should be of stainless steel.</li> </ul>	1 set
•	GI Pipe Earthing System conforming IS : 3043 – 1966	1 set
•	Lightning & over Voltage Protection System conforming provisions of IS:2301-1969	1 set



## Annexure V

**Sr. No. 10 FINANCIAL BID****FINANCIAL BID FOR VARIOUS RENEWABLE ENERGY SYSTEMS**

Financial Bid for making Contract for the year 2011-12 for supply, installation, commissioning including necessary civil works, if any, along with Comprehensive Maintenance contract cost for 5 years including warrantee and taxes, transportation, insurance, duties, etc., all complete at places anywhere in State of Maharashtra.

SI. No.	System	Required Quantity	Total Cost Per No. (in Rs.)	
01	Solar Home Light Model IV (SHL)	252	In Rs.	
			In words	
02	1 KWP Solar Power Pack System	46	In R	
			In words	

**Note :**

- a. The cost is inclusive of all applicable taxes & transportation, etc., including necessary civil works.
- b. No extra charge for maintenance under 5 year warranty period.

**Date :****Signature :****Name :****Designation :****Seal of Company :**



**BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI**  
**CAPITAL PURCHASE**

Annexure-A

**ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

**CHECK-LIST FOR VENDORS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit the offer in <b>TWO INNER ENVELOPES</b> as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> <li>❖ <b>Envelope I:</b> This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked <b>“Part I - Technical and commercial bid”</b>, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder.</li> <li>❖ <b>Envelope II:</b> This sealed envelope should contain <b>price details</b>. This envelope should be clearly marked <b>“Part II - Price bid”</b>, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part II.</li> </ul> <p>All the two envelopes ( Part I&amp;II ) shall be put in one cover, duly sealed, super scribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered.</p> <p>Tender should not be addressed to any Individual’s name but only by designation to:</p> <p align="center"><b>DGM / CAPITAL PURCHASE / MFG BHARAT HEAVY ELECTRICALS LIMITED HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620 014 TAMIL NADU, INDIA</b></p> <p>Tenders should be free from <b>CORRECTION AND ERASURES</b>, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in <b>ENGLISH</b> and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in <b>ENGLISH</b> or otherwise, the offers will not be considered.</p> <p><b>Vendor’s confirmation:</b></p>
2.	<p><b><u>OPENING OF TENDERS</u></b></p> <p>The Part I- Technical &amp; commercial bid would be opened on the Tender opening date. The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid.</p> <p><b>Vendor’s confirmation:.</b></p>
3.	<p><b><u>Currency of payment:</u></b></p> <ul style="list-style-type: none"> <li>• Indian bidders should submit the prices only in Indian Rupees.</li> </ul> <p><b>Vendor’s confirmation:.</b></p>
4.	<p><b><u>Validity:</u></b> Validity of the offer should be 120 days from the date of tender opening. <u>BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.</u></p> <p><b>Vendor’s confirmation:.</b></p>
5.	<p><b><u>Release of Purchase Order, submission of PBG and terms of Payment:</u></b></p> <ul style="list-style-type: none"> <li>➤ Purchase Orders will be released on the successful vendor.</li> <li>➤ 90% of the total cost shall be paid after supply, installation &amp; successful commissioning of the system and submission of joint inspection report duly certified by User and BHEL.</li> <li>➤ 10% of total cost will be released after submission of one-month performance report certified by user agency and Performance Bank Guarantee from Nationalized Bank of the equivalent amount valid for 5 years in favour of BHEL, Tiruchirapaali.</li> </ul> <p><b>Vendor’s confirmation:.</b></p>



<p><b>6.</b></p>	<p><b>Performance Bank Guarantee (PBG):</b> The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a proforma prescribed by BHEL, along with the order, for an amount equivalent to <b>10% (Ten percent)</b> of the value of the contract. The PBG shall be valid for period of 5 years from the date of supply, installation &amp; successful commissioning of the equipment at Maharashtra state.</p> <p>The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks.</p> <p><b>LIST OF CONSORTIUM BANKS</b>  1.DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING .CORPORATION LTD.</p> <p><b>LIST OF NATIONALISED BANKS</b>  1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB &amp; SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER &amp; JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>7.</b></p>	<p><b>Liquidated damages (LD):</b>  It is clearly understood among the parties to the contract that "Time is the essence of the contract". Therefore, the delivery / installation of the goods specified in the purchase order should be made within the time prescribed. In case the manufacturer / supplier fails to complete the work within the time period specified in the purchase order / contract placed by BHEL a sum equivalent to 0.5% of the work wherever applicable shall be deducted for each week of delay subject to a maximum deduction of 15% by BHEL.</p> <p><u>BHEL reserves the right to reject offers from vendors not accepting the above LD clause, with maximum LD as 15%.</u></p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>8.</b></p>	<p><b>Risk Purchase:</b>  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 supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>9.</b></p>	<p><b>Force Majeure clause:</b> If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>10.</b></p>	<p><b>Inspection &amp; Testing:</b> All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at sight or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. Final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>11.</b></p>	<p><b>Test certificates / Operating and Maintenance manuals :</b> The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>12.</b></p>	<p><b>Reverse Auction (RA):</b>  BHEL reserves the right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below  Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <p>1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.</p>



	<ol style="list-style-type: none"> <li>2. 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.</li> <li>3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact &amp; get trained.</li> <li>4. Business rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.</li> <li>5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to Participate in the event.</li> <li>6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) for conducting RA</li> <li>7. Reverse auction will be conducted on scheduled date &amp; time.</li> <li>8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.</li> <li>9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.</li> <li>10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.</li> <li>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.</li> <li>12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction</li> </ol> <p><u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>13.</b></p>	<ul style="list-style-type: none"> <li>➤ Point by point confirmation for the Technical Specification enclosed to be provided. if there are any deviation, the same should be clearly specified. Offers received without confirmation to our specification will be liable for rejection. If needed additional sheets shall be used.</li> <li>➤ List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed</li> <li>➤ Relevant catalogues to be attached</li> <li>➤ Offers shall be submitted by the Original Equipment Manufacturer. In case of foreign bidder, the Principal's offer should be enclosed.</li> <li>➤ Prices shall be quoted item wise only as per the model format enclosed. An unpriced copy shall be submitted along with technical bid.</li> <li>➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for further processing Fixed price:</li> <li>➤ Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regard to total price.</li> <li>➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.</li> <li>➤ Evaluation of offers shall be on the basis of delivered cost (Net cash outflow b).</li> <li>➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units.</li> <li>➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.</li> <li>➤ All Equipments / Services including concern Personal for carrying out the installation and commissioning of the Equipment shall be arranged by the vendor.</li> <li>➤ 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</li> <li>➤ Any replacement during 5 years contract period shall be supplied free of charge on destination basis.</li> </ul>
	<p><b>Vendor's confirmation:</b></p>



<b>14.</b>	<b>Company Details &amp; Contact</b>	
	Address of the company to whom place order	
	Pan No	
	CST /TIN No	
	Service Tax No.	
	Name of the contact person:	
	Mobile No.:	
	e-mail ID	
<b>15.</b>	Project completion period from the date of Letter of Intent / Purchase Order including installation & successful completion of system	
<b>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail &lt;<a href="mailto:srchandran@bheltry.co.in">srchandran@bheltry.co.in</a>&gt;</b>		

NOTE:-

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) **No row shall be left blank. Please indicate NA, in case the item is "not applicable"**

**Declaration:-**

We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)



**BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI**  
**CAPITAL PURCHASE**

Annexure-A

**ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

**CHECK-LIST FOR VENDORS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit the offer in <b>TWO INNER ENVELOPES</b> as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> <li>❖ <b>Envelope I:</b> This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked <b>“Part I - Technical and commercial bid”</b>, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder.</li> <li>❖ <b>Envelope II:</b> This sealed envelope should contain <b>price details</b>. This envelope should be clearly marked <b>“Part II - Price bid”</b>, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part II.</li> </ul> <p>All the two envelopes ( Part I&amp;II ) shall be put in one cover, duly sealed, super scribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered.</p> <p>Tender should not be addressed to any Individual’s name but only by designation to:</p> <p align="center"><b>DGM / CAPITAL PURCHASE / MFG BHARAT HEAVY ELECTRICALS LIMITED HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620 014 TAMIL NADU, INDIA</b></p> <p>Tenders should be free from <b>CORRECTION AND ERASURES</b>, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in <b>ENGLISH</b> and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in <b>ENGLISH</b> or otherwise, the offers will not be considered.</p> <p><b>Vendor’s confirmation:</b></p>
2.	<p><b><u>OPENING OF TENDERS</u></b></p> <p>The Part I- Technical &amp; commercial bid would be opened on the Tender opening date. The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid.</p> <p><b>Vendor’s confirmation:.</b></p>
3.	<p><b><u>Currency of payment:</u></b></p> <ul style="list-style-type: none"> <li>• Indian bidders should submit the prices only in Indian Rupees.</li> </ul> <p><b>Vendor’s confirmation:.</b></p>
4.	<p><b>Validity:</b> Validity of the offer should be 120 days from the date of tender opening. <u>BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.</u></p> <p><b>Vendor’s confirmation:.</b></p>
5.	<p><b>Release of Purchase Order, submission of PBG and terms of Payment:</b></p> <ul style="list-style-type: none"> <li>➤ Purchase Orders will be released on the successful vendor.</li> <li>➤ 90% of the total cost shall be paid after supply, installation &amp; successful commissioning of the system and submission of joint inspection report duly certified by User and BHEL.</li> <li>➤ 10% of total cost will be released after submission of one-month performance report certified by user agency and Performance Bank Guarantee from Nationalized Bank of the equivalent amount valid for 5 years in favour of BHEL, Tiruchirapaali.</li> </ul> <p><b>Vendor’s confirmation:.</b></p>



<p><b>6.</b></p>	<p><b>Performance Bank Guarantee (PBG):</b> The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a proforma prescribed by BHEL, along with the order, for an amount equivalent to <b>10% (Ten percent)</b> of the value of the contract. The PBG shall be valid for period of 5 years from the date of supply, installation &amp; successful commissioning of the equipment at Maharashtra state.</p> <p>The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks.</p> <p><b>LIST OF CONSORTIUM BANKS</b>  1.DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING .CORPORATION LTD.</p> <p><b>LIST OF NATIONALISED BANKS</b>  1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB &amp; SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER &amp; JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>7.</b></p>	<p><b>Liquidated damages (LD):</b>  It is clearly understood among the parties to the contract that "Time is the essence of the contract". Therefore, the delivery / installation of the goods specified in the purchase order should be made within the time prescribed. In case the manufacturer / supplier fails to complete the work within the time period specified in the purchase order / contract placed by BHEL a sum equivalent to 0.5% of the work wherever applicable shall be deducted for each week of delay subject to a maximum deduction of 15% by BHEL.</p> <p><u>BHEL reserves the right to reject offers from vendors not accepting the above LD clause, with maximum LD as 15%.</u></p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>8.</b></p>	<p><b>Risk Purchase:</b>  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 supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>9.</b></p>	<p><b>Force Majeure clause:</b> If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>10.</b></p>	<p><b>Inspection &amp; Testing:</b> All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at sight or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. Final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>11.</b></p>	<p><b>Test certificates / Operating and Maintenance manuals :</b> The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost</p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>12.</b></p>	<p><b>Reverse Auction (RA):</b>  BHEL reserves the right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below  Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <p>1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.</p>



	<ol style="list-style-type: none"> <li>2. 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.</li> <li>3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact &amp; get trained.</li> <li>4. Business rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.</li> <li>5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to Participate in the event.</li> <li>6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) for conducting RA</li> <li>7. Reverse auction will be conducted on scheduled date &amp; time.</li> <li>8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.</li> <li>9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.</li> <li>10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.</li> <li>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.</li> <li>12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction</li> </ol> <p><u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></p>
	<p><b>Vendor's confirmation:</b></p>
<p><b>13.</b></p>	<ul style="list-style-type: none"> <li>➤ Point by point confirmation for the Technical Specification enclosed to be provided. if there are any deviation, the same should be clearly specified. Offers received without confirmation to our specification will be liable for rejection. If needed additional sheets shall be used.</li> <li>➤ List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed</li> <li>➤ Relevant catalogues to be attached</li> <li>➤ Offers shall be submitted by the Original Equipment Manufacturer. In case of foreign bidder, the Principal's offer should be enclosed.</li> <li>➤ Prices shall be quoted item wise only as per the model format enclosed. An unpriced copy shall be submitted along with technical bid.</li> <li>➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for further processing Fixed price:</li> <li>➤ Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regard to total price.</li> <li>➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.</li> <li>➤ Evaluation of offers shall be on the basis of delivered cost (Net cash outflow b).</li> <li>➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units.</li> <li>➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.</li> <li>➤ All Equipments / Services including concern Personal for carrying out the installation and commissioning of the Equipment shall be arranged by the vendor.</li> <li>➤ 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</li> <li>➤ Any replacement during 5 years contract period shall be supplied free of charge on destination basis.</li> </ul>
	<p><b>Vendor's confirmation:</b></p>



<b>14.</b>	<b>Company Details &amp; Contact</b>	
	Address of the company to whom place order	
	Pan No	
	CST /TIN No	
	Service Tax No.	
	Name of the contact person:	
	Mobile No.:	
	e-mail ID	
<b>15.</b>	Project completion period from the date of Letter of Intent / Purchase Order including installation & successful completion of system	
<b>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail &lt;<a href="mailto:srchandran@bheltry.co.in">srchandran@bheltry.co.in</a>&gt;</b>		

NOTE:-

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) **No row shall be left blank. Please indicate NA, in case the item is "not applicable"**

**Declaration:-**

We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)