



# BHARAT HEAVY ELECTRICALS LIMITED

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

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

429-002/A

	<b>Enquiry No</b> 2681500004 - 79	<b>Enquiry Date</b> 28.05.2015	<b>Due Date for Quotation</b> 24.06.2015
<p>Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order.  <b>Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date &amp; Enq. Due date must be written on all three covers.</b></p>			


Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	30 KWP SPV PANEL SUPPLY, ERECTION AND COMMISSIONING OF GRID CONNECTED SPV ROOF POWER PLANTS WITH STRING INVERTER AT BHEL MATRICULATION HR SEC SCHOOL AND BHEL MIDDLE SCHOOL, KAILASAPURAM. Details as per annexure-I & II	NO	2.000	2.00	31.07.15

### 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 & PBG clause and 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 seven 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.14)
7. Please note that, there will not be any due date extension for this tender and hence kindly submit your offer well before due date.
8. Vendors are requested to avoid the following points while submitting the Bid Documents:
  - a) Loose or spiral bound bid documents are not encouraged.
  - b) In case of any corrections/overwriting in the tender documents, the same shall be duly attested by the bid submitter.
9. Vendor representative having proper ID proof and authorization letter

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

  
**P. G. ABHISHEK VICTOR**  
 Senior Manager  
 Purchase / MM / MFG  
 BHEL, TRICHY - 620 014



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shall attend for tender opening.

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. Pre-Qualifying Criteria- Annexure-I
2. Technical Specifications - Annexure-II
3. Commercial terms & Conditions-Annexure-A
4. Price Format-Annexure-B
5. CA Certificate for MSE Vendors-Annexure-III

All the tenders may be addressed to the following address:

**The Tender Opening Cell / MM  
Room No: 26, Building 24, Ground Floor  
Bharat Heavy Electricals Limited  
TIRUCHIRAPALLI 620014**

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only [tender\\_cell@bheltry.co.in](mailto:tender_cell@bheltry.co.in).

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.


The offers will be opened at 14.30 hrs on the due date of the 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.

**Enclosures:**

"LD clause has to be confirmed without fail."

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)  
Yours faithfully,

## ANNEXURE - I

**Design, manufacture, supply and commissioning of Grid connected  
Solar PV power generating system.**

QUALIFICATION CRITERIA		
S.No	Description	Bidder to specify details
1	Bidder should have commissioned 30 kWp or higher capacity solar PV power system in the past 2 years. (enclose evidence).	
2	The Bidder should have made net profits in the past three years. Copy of Audited financial statements for last three years to be enclosed.	
3	Bidder should furnish reference list of customers, with full contact details to whom Solar systems have been supplied in the past. The bidder should also submit following details which are necessary for qualifying their offer.	
3.1	Name and postal address of the customer or company where similar or higher capacity solar power system installed.	
3.2	Name, designation, contact phone numbers and email address of the contact person of the customer.	
3.3	Details of solar power system supplied. Month and year of Supply & commissioning.	
3.4	BHEL reserves the right to verify the information provided by bidder. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	
4	The OEM should have technically qualified engineers who have expertise and certification to support the installations.	
5	Bidder should provide service after sales set up in Trichy, Tamilnadu (by a qualified engineer). While a call centre is acceptable for logging support requirements however onsite support must be provided by a qualified engineer.	
6	Authorization certificate from the Principal Supplier should be submitted in case a Dealers/ Agents.	
<p><b>Kindly note that the experiences and audited statements are to be stated strictly w.r.t the last date of submission of this tender.</b></p>		

<b>Supply, Erection and commissioning of Grid connected Rooftop Solar PV power generating system at BHEL Trichy (2 nos)</b>		
<b>SPECIFICATION &amp; SCOPE OF WORK</b>		
<b>S.No</b>	<b>Description</b>	<b>Bidder to confirm/ specify details</b>
1	<b>Scope of Work:</b>	
1.1	Design, manufacture, supply & commissioning of Solar PV power generating System with string inverter as below	
1.1.1	<b>30 kWp - 2 numbers</b>	
1.2	Detailed planning of smooth execution of the project	
1.3	Testing, Installation & Commissioning of the complete system.	
1.4	Necessary coordination with Central & State authorities for claiming the incentives/subsidies.	
2.0	<b>Scope of supply for each SPV power generating system: SPV Modules will be supplied by BHEL at free of cost &amp; Rest of the work by Supplier / Manufacturer</b>	
2.1	M.S galvanized Module Mounting Structures to mount Solar modules	
2.2	Module Junction box IP 65 (weather resistant)	
2.3	Junction Box IP65 (weather resistant)	
2.4	240 volt DC input, 415V, 3-phase, 50Hz output Power Conditioning Unit	
2.5	Appropriate Cables and Hardwares	
2.6	AC Distribution board (ACDB)	
2.7	Import & Export metering facilities	
3.0	<b>Specification for Mono crystalline Solar Modules: (Module specification is given for the purpose of knowledge only )</b>	
3.1	<b>BHEL make</b> 20V, 230Wp ( $\pm 10\%$ ) Mono-crystalline Solar Modules with anodized Aluminum frame. Voc= 36V, Vmp= 29V	
3.2	Individual Solar PV Module should be of capacity 230 Wp ( $\pm 10\%$ ) conforming to IEC 61215 ( Edition 2 or latest), IEC 61730 , IEC 61710 for corrosive protection.	
3.3	The Solar PV Module should be made from not more than 60 Nos. 156X156 mm <b>Mono crystalline</b> Silicon Solar Cell connected in series.	
3.4	Module should be made up of high transmissivity glass front surface giving high encapsulation gain and hot butyl rubber edge sealant for module protection and mechanical support. Transmittivity of glass shall be not less than 91%.	
3.5	All materials used should have a proven history of reliable and stable operation in external outdoor applications.	
3.6	The bird spike shall be provided to avoid bird sitting on the solar modules at the highest point of the array/module structure.	
3.7	Solar modules should be designed to operate and perform in relative humidity up to 100% with temperatures between -10 Deg C and +85 Deg C and with stand draft up to 200km/hr from back side of the panel.	
3.8	The rated output of any supplied module shall not vary by more than 3-5% from the average power rating of all ratings. Each modules, therefore, has to be tested and rating displayed. ( I-V characteristics curves).	
3.9	All the modules should be supplied with RFID as per MNRE.	
3.10	SPV module shall be highly reliable, light weight and shall have a service life of more than 20 years. SPV modules shall have a limited power loss of not more than 10% of nominal output at the end of 10 years and of not more than 20 % of nominal output at the end of 25 years.	

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<b>S.No</b>	<b>Description</b>	<b>Bidder to confirm/ specify details</b>
3.11	<b>Make of the monocrystalline modules</b>	<b>BHEL</b>
3.12	Roof top area available for the installation of SPV panels in square meters:	<b>Bidder to note</b>
a	BHEL Matriculation School - 1 x 30 kWp	42x8m, 29x10m,25x8m
b	BHEL Middle School -1 x 30 kWp	69x8m
4.0	<b>Specification for Module mounting stand:</b>	
4.1	The Solar Module mounting structure should be made of hot dip galvanized MS angles & Pipes. All nuts & bolts shall be made of good quality stainless steel SS304. The minimum clearance of the lowest part of the module structure and the developed ground level should be 200 mm	
4.2	The array structure and inverter / AC DB Panels shall be separate double earthed properly using maintenance free earthing kit as per IS: 3043-1987, tested & certified by CPRI. The interconnecting cables, DC power supply cables & AC output cables should be routed through PVC Conduit pipes with proper painted identification marks. Hot dipped GI size 25X3 mm shall be used for earthing. Lightning arrester should be included with dedicated earthing.	
4.3	The Solar Module mounting structure should withstand wind speed up to 200 km/h.	
4.4	The supplier/manufacturer should specify installation details of the PV modules and the foundation details.	
5.0	<b>Specification for String Inverter:</b>	
5.1	Output Voltage: 415 volts three phase, 4 wire, Nominal voltage can be adjusted by $\pm 5\%$ via system set points. Suitable surge protection devices to be included for AC side.	
5.2	Output Frequency: 50Hz $\pm 0.5\%$ ; Inverter to follow grid frequency up to $\pm 3$ Hz of the nominal output frequency during normal operation.	
5.3	Make of string inverter: REFUSOL / DELTA / SUNGROW/ GROWATT / DANFOSS/ SMA only.	Bidder to confirm make and model
5.4	MPPT feature shall be available. MPPT range of voltages shall be furnished by the bidder.	
5.5	Details of No. of DC input connections and type of DC side connections shall be furnished by the bidder. DC fuses for strings shall be provided in the inverter (In built or in separate box). Integrated Disconnecter switch shall be provided on DC side	
5.6	Waveform: Sine wave	
5.7	Total harmonic Distortion (THD): less than 3 %	
5.8	Maximum inverter efficiency and rated power factor. Bidder to specify	
5.9	Noise level shall be <60dB	
5.10	Alarm signals: <b>Bidder to specify</b>	
5.11	LCD front panel to display all electrical parameters kWhr, kW, Voltage, Power factor, frequency etc.	
5.12	String inverter shall be capable to synchronize independently & automatically/to be phase locked with POWER SUPPLY AUTHORITY grid power line frequency to attain synchronization & export power generated by the solar panel to POWER SUPPLY AUTHORITY grid in addition to supply power to the loads.	

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5.13	Should be equipped with anti-islanding system, DC Reverse polarity protection, AC side short circuit protection, all other required controls and emergency stops. (Bidder should provide complete details of the system controls).	
5.14	Protections: a. Over voltage both at input & output; b. Over current both at input & output; c. Over/under grid frequency; d. Over temperature; e. Short circuit.	
5.15	Degree of Protection: IP 65 or better (outdoor installation) with test certificates.	
5.16	Bidder to mention up to what altitude above sea level inverters will work without de-rating.	
5.17	Remote and Local monitoring of Inverters shall be available. bidder shall furnish the communication protocol details.	
6.0	<b>Approval of System Design:</b>	<b>Bidder to confirm</b>
6.1	The concept plan/design of each subsystem shall be submitted to BHEL for approval .	
6.2	Quality Assurance Plan should include design control, process control, quality control, testing of sub-system, integration and bill of material intended to be used.	
7.0	<b>Documentation:</b>	
7.1	The following documents in English language should be supplied along with the system.	
7.2	Hard Copies - 3 Sets bidder to confirm	
7.3	In CD form - 1 Set bidder to confirm	
7.4	Operating manuals of System & Inverter.	
7.5	Maintenance manuals with drawings of Inverter, system assemblies / sub-assemblies with parts list.	
7.6	Trouble shooting chart for main and all sub systems	
7.7	Catalogues, O&M manuals for all bought out items used in the system.	
8.0	<b>Test Certificates</b>	
8.1	Routine test certificates/Test Reports for structures, string inverters & Earthing kits to be furnished by the bidder. BHEL, if required will inspect the materials at bidder place.	
8.2	Equipment shall not be dispatched until BHEL issues a "Dispatch clearance" to bidder.	
8.3	Warranty certificates shall be submitted for all bought-out items.	
9.0	<b>Guarantee:</b>	
	24 months performance guarantee for the system should be given from the date of successful commissioning. Apart from this Inverter should be guaranteed for min of 5 years	
10.0	<b>Annual maintenance contract</b> for two years from successful commissioning of the plant for routine maintenance of the inverter and other accessories	
11.0	<b>GENERAL TERMS AND CONDITIONS:</b>	
11.1	Bidder's responsibility, right and liabilities under this project will commence from the date of acceptance of the purchase order.	
11.2	The installation activity will have to be carried out in such a manner that will not cause any inconvenience to the other agencies working in the site. Any permits from the customer, if required, are to be arranged by the bidder for his personnel.	
11.3	After completion of the E&C, the entire site/area will be cleaned of debris etc. by the bidder prior to handing over of the site to BHEL.	

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<b>S.No</b>	<b>Description</b>	<b>Bidder to confirm/ specify details</b>
11.4	All the materials brought to site has to have proper paper work like DC, Invoice etc. duly verified & signed by BHEL/BHEL's customer to be submitted to BHEL for payment.	
11.5	Any damage to the buildings/structures/area made by bidder's work men or by bidder's agent will be made good by bidder at bidder's cost.	
11.6	Bidder shall take work permit before commencement of all types of non-routine works as per the statutory procedures followed at the work place.	
11.7	Bidder shall explain the job, associated hazards and precautions to his workmen.	
11.8	Bidder shall ensure one person who should have the skill, knowledge and experience of performing the allotted task and shall be able to guide his team.	
11.9	Bidder shall ensure safe procedure is followed during execution of the job.	
11.10	Bidder shall ensure that his workmen wear appropriate safety personal protective Equipment.	
11.11	Bidder shall ensure adequate supervision of the activity by his supervisor.	
11.12	Bidder has to adhere to necessary legal/safety requirements and BHEL shall be kept indemnified against any untoward events taking place during the course of work.	
11.13	No child labour should be employed for executing the project.	
11.14	In case project is not completed as per BHEL scope due to reasons arising out of materials from BHEL end/bidder's end, contractor has to complete the job at later stage without any extra charges. No over run charges shall be paid in case of extension of project schedules.	
11.15	Any miscellaneous materials that have not been mentioned specifically in the specification/tender which are required for erection and commissioning of the plant, shall be deemed to be included in the specification and shall be supplied by the bidder without any extra charges. Any scope of activities which are not specifically mentioned in this specification but required for the completion of the installation of the SPV plant for safe, trouble free, normal operation shall be provided at no extra cost by the bidder, unless explicitly excluded in the specification. Any charges for the civil works/ construction materials/water used for the construction work at site will be in the scope of bidder.	
11.16	Scaffolding: bidder has to employ scaffolding, belts/safety accessories for safety of personnel working on high rise building during erection, routing of earthing strips and cabling through PVC pipes from roof top of the terrace to control room.	
11.17	Statutory obligation: bidder is required to meet all the statutory obligations/ legal requirement with regard to workmen deployed by bidder for the project such as ESI, PF, Minimum wage act, Work man compensation act/Accident/medical insurance, Income Tax act, Employees Insurance act etc.	
11.18	The installation should strictly conform to this specification. All the works shall be executed strictly as per the direction of BHEL Engineer at site.	
11.19	All components /equipments selected for the solar plant shall be covered under MNRE norms stipulating the minimum technical requirements.	
12.0	The erection & installation of Solar Electrical system should be carried out thro' a valid Electrical licence Contractor issued by TNEB and required 'Safety Certificate' from CEA should be obtained after completion of work. In this respect co-ordinating with local TANGEDCO officials for inspection & clearence should also be included in Contractor's scope.	

**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 herein, BHEL reserves the right to reject such offers)

**CHECK-LIST FOR VENDORS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit their 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 I.</li></ul> <p>All the two envelopes (Part I&amp;II) shall be put in one cover, duly sealed, super scribing as "<b>Part I and Part II of Enquiry No., due date of opening</b>" and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening.</p> <p>Offers will be accepted &amp; received till 14.00 hrs on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered.</p> <p>The Tenders should be addressed to the following address to</p> <p style="text-align: center;"><b>The Tender Opening Cell/MM Room No-26 , Building – 24 , Ground Floor Bharat Heavy Electrical Limited Tiruchirapalli- 620014 .</b></p> <p>In case personal delivery of the offer, it shall be dropped into the respective box after duly entering the data in the system kept in room no 26 .</p> <p>Vendors are requested to avoid submission of offers thro email / fax . In case of any unavoidable situation, offers shall be sent thro email to the following mail ID only "<b>tender_cell@bheltry.co.in</b>" "</p> <p>As such Tenders are being opened by Common Tender opening Cell , offer covers should be sealed with tender's distinctive seal and super scribed with correct Tender NO, item of supply and due date of Opening</p> <p>Tenders should be free from <b>CORRECTIONS 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>
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.</p> <p>Part-II, Price bid of technically suitable Bidders alone would be opened after complete evaluation of Part-I. 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 this Annexure- I <b>(Point no.14)</b>.</p> <p>Date and time of Price Bid (Part-II) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price Bid/ RA</p>

<b>No row shall be left blank. Please indicate NA, in case the item is “not applicable”</b>		<b>Vendor's confirmation</b>
<b>3.</b>	<b>Validity:</b> Validity of the offer should be <b>120 days</b> from the date of tender opening.	
<b>4.</b>	<b>Release of Purchase Order:</b> ➤ Order will be released on successful L1 (lowest) vendor for each serial numbers.	
<b>5.</b>	<p><b>Terms of Payment:</b></p> <ul style="list-style-type: none"> <li>➤ 80% 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>➤ Balance 20% of total cost will be released after submission of 3-month performance report certified by user agency and submission of Performance Bank Guarantee from Nationalized Bank of the equivalent amount valid for 2 years in favour of BHEL, Tiruchirappali.</li> </ul> <p style="color: red; font-size: small;">Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p>	
<b>6.</b>	<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 format 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 a period of <b>two Years</b> from the date of commissioning of the equipment, with a claim period of two months.</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>The performance bank guarantee shall be returned after completion of 2 years CMC period from date of commissioning by order issuing authority</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>	
<b>7.</b>	<p><b>Liquidated damages (LD):</b> The delivery 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 10% by BHEL.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p>	
<b>8.</b>	<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 dispatch 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>9.</b></p>	<p><b>Delivery terms and evaluation process:</b> Bidders should submit their offer on <b>FOR Destination basis</b>. The 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. <b>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to Destination)</b></p>	
<p><b>10</b></p>	<p><b>Short shipment / Warranty replacement:</b> In case of any short shipment in the main equipment / spares, Customs Duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the 2 years period shall be on FOR Destination/ BHEL Tiruchirappalli basis.</p>	
<p><b>11</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 commissioning place at various locations in BHEL Tiruchirappalli as the case may be. The supplier will not charge for the facilities provided for inspection of goods. The final inspection and acceptance of the machine will be carried after installation &amp; commissioning of equipment at various locations in BHEL Tiruchirappalli</p>	
<p><b>12</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>13</b></p>	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
<p><b>14</b></p>	<p><b>Reverse Auction (RA):</b> BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) 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> <ol style="list-style-type: none"> <li>1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.</li> <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) which will help to arrive at "Total Cost to BHEL" like Packing &amp; forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms &amp; conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction</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/e-mail 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> <li>13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></li> <li>14. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.</li> </ol> <p>In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</p>	

<b>15</b>	<ul style="list-style-type: none"> <li>➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used.</li> <li>➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing Fixed price:</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 Equipment's / Services including concerned personnel for carrying out the erection and commissioning of the equipment shall be arranged by the vendor. If any Services are availed from BHEL, it is only on chargeable basis unless otherwise specified.</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>➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit</li> </ul>																													
<b>16</b>	<p><b><u>Special Provisions for Micro and Small Enterprises (MSE)</u></b></p> <p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure - III) applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier</p>																													
<b>17</b>	<p><b>Company Details &amp; Contact</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Full Address of the company for future correspondence. (Copy of address proof &amp; PAN card shall be attached along with Part-I)</td> <td colspan="3"></td> </tr> <tr> <td>Company Email ID:</td> <td style="width: 20%;"></td> <td>Phone No.:</td> <td style="width: 20%;"></td> </tr> <tr> <td>Fax No</td> <td></td> <td>PAN No</td> <td></td> </tr> <tr> <td>CST /TIN No</td> <td></td> <td>Service Tax No.</td> <td></td> </tr> <tr> <td>Name of the contact person:</td> <td></td> <td>Mobile No.:</td> <td></td> </tr> <tr> <td>e-mail ID</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Company Email ID:</td> <td></td> <td>Phone No.:</td> <td></td> </tr> </table>		Full Address of the company for future correspondence. (Copy of address proof & PAN card shall be attached along with Part-I)				Company Email ID:		Phone No.:		Fax No		PAN No		CST /TIN No		Service Tax No.		Name of the contact person:		Mobile No.:		e-mail ID				Company Email ID:		Phone No.:	
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Fax No		PAN No																												
CST /TIN No		Service Tax No.																												
Name of the contact person:		Mobile No.:																												
e-mail ID																														
Company Email ID:		Phone No.:																												
<b>18</b>	Project completion period from the date of Letter of Intent / Purchase Order including installation & successful completion of system																													
<p><b>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail &lt;pgavictor@bheltry.co.in&gt;</b></p>																														

**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:-**

I/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.

Name:  
Designation:

Signature with date:

(AFFIX OFFICIAL SEAL HERE)

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)



## Sr. No. 10 FINANCIAL BID

### FINANCIAL BID FOR VARIOUS RENEWABLE ENERGY SYSTEMS

Financial Bid for making Contract for supply, erection & commissioning with AMC for a period of 2 years of grid connected roof top solar PV power generating system at BHEL Trichy. The rate shall be inclusive of all taxes & duties, transportation, packing & forwarding, installation, testing & commissioning etc.,

Sl. No.	System	Quantity	Total Cost Per No. (in Rs.)
10	Design, manufacture, supply & commissioning of 30kWp Grid connected Rooftop Solar PV power generating System with string inverter	2	

**Note :**

- The cost is inclusive of all applicable taxes & transportation, etc., including necessary civil works.
- No extra charge for maintenance under 2 year AMC period.
- Modules will be supplied by BHEL at free of cost

Date :

Signature :

Name :

Designation :

Seal of Company :

**Certificate by Chartered Accountant on letter head**

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at  
..... is registered under MSMED Act 2006, (Entrepreneur  
Memorandum No (Part-II) ..... dtd:.....,  
Category: ..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on  
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :  
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:  
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of  
Rs.....Lacs for .....Micro / Small (**Strike off which is not applicable**)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant