

## NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI

### **Design, manufacture, supply and commissioning of 100kWp solar power generating system as per the qualifying criteria in Annexure-I and specification & scope of work as per Annexure-II**

#### General Notes:

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 “Tender for SPV Power Plant” with tender reference and due date of opening and addressed to:

Director  
NIT, Trichy- 620 015.

2. The price bid of only those whose technical specifications are found according to the required specifications will be opened.
3. Price bid should clearly indicate the total cost of the project with breakup of Government subsidy and the net commitment of NITT after the subsidy. Obtaining the subsidy shall be the sole responsibility of the supplier and shall be a deciding factor in the selection process.
4. Price bid should include a separate section on details of post warranty period comprehensive AMC charges and details of terms and conditions.
5. Point-to-point confirmation to NITT’s specification and commercial terms & conditions shall be provided in Annexure-A. All the Annexures should be filled and submitted along with the technical bid (no row shall be left blank). Offers not fulfilling this condition are liable for rejection.
6. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
7. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.
8. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.nitt.edu> Please visit the website regularly for any updates.

List of attachments :

1. Qualification Criteria – Annexure-I
2. Specification – Annexure-II
3. Commercial terms and conditions – Annexure-A
4. Model price bid format – Annexure-B

The last date for submission of tender which was 27-09-12, is extended to 10-10-12. Sealed tenders should reach NITT at least 30 minutes before the time of opening of tenders. The tenders will be opened at 14.30 hrs on the due date (10-10-12) of tender in the presence of bidders who have submitted their tenders and who wish to be present for the tender opening. Late and delayed tenders are liable to be rejected.

Cost of Tender document: Rs.1560/- (non-refundable) : To be submitted by way of DD drawn in favour of “Director, NIT, Trichy” payable at Trichy. DD is to be submitted along with Part- I - Technical and commercial (unpriced bid). Cost of Tender document may be exempted for Government/PSU organizations.

EMD of Rs. 50,000/- (refundable) by way of DD drawn in favour of “The Director, NIT, Trichy” payable at Trichy should be submitted along with Part- I - Technical and commercial (unpriced bid). EMD may be exempted for Government/PSU organizations.

5.

<b>ANNEXURE - I</b>		
<b>Design, manufacture, supply and commissioning of 100 kWp Grid connected roof-top Solar PV power generating system.</b>		
<b>QUALIFICATION CRITERIA</b>		
<b>S.No</b>	<b>Description</b>	<b>Vendor to specify details</b>
1.1	The bidder should be approved by MNRE/ GOI, having a complete solar cell manufacturing and module manufacturing facility in India.(copy to be submitted). Preference will be given to Public Sector Undertakings subject to meeting other terms and conditions.	
1.2	Bidder must be an Indian manufacturing company of crystalline solar photovoltaic cell and modules of capacity 100Wp or more with international qualification certification of IEC 61215 edition II and test reports issued by by one of the IEC accredited test centers with the test certificates from any one of the TUV/NABL/BIS accredited testing calibration laboratories. Qualification test certificates will be as per IEC standard.	
1.3	Bidder should submit a copy of ISO certification-9001 & 14001 for manufacturing facility from where the equipments will originate.	
1.4	Bidder should have experience of installation, commissioning and maintenance of a 100kWp SPV plant. An aggregate of 1000 kWp grid connected roof-top solar power plants during the last two years must have been executed in India (enclose evidence).	
1.5	Bidder should have experience of executing at least one plant of a similar kind in any educational institution in India (enclose evidence).	
1.6	Bidder should be in core business of manufacturing solar pv power generating systems and should have an aggregate turnover of Rs.100 Crores in last three financial years. Copy of Audited financial statements for last three years to be enclosed.	
1.7	Bidder shall be required to have adequate post installation localized service facilities/centers.	
1.8	Bidder should have valid CST / VAT / PAN & Service Tax No. (enclose evidence)	
1.9	All the components including power plant, software and other components should be quoted as a single item. Partial quotes are not accepted.	
2.0	Bidder should furnish reference list of customers, with full contact details to whom Solar systems have been supplied in the past. The vendor should also submit following details which are necessary for qualifying their offer.	
2.1	Name and postal address of the customer or company where similar or higher capacity solar power system installed.	
2.2	Name, designation, contact phone numbers and email address of the contact person of the customer.	
2.3	Details of solar power system supplied. Month and year of Supply & commissioning.	
2.4	Performance certificate from the customer for satisfactory performance of the solar power system supplied to them. Further, certificate in proof of satisfactory maintenance service / AMC etc post commissioning to be submitted.	
2.5	NITT reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

**Technical specifications for 100kWp, Grid connected solar power plant**

**TITLE: Design, Manufacturing, Supply and commissioning of 100 KWp Grid interactive Roof -Top Solar PV power System**

**Technical Specifications**

S.No.	Item description	Vender to specify details
1.	<b>Scope of Work of vendor</b>	
1.1	Site survey and Layout Planning, Design, development and supply of all components of the SPV Power system and erection of the PV System (including the transportation)	
1.2	Detailed planning of smooth execution of the project	
1.3	Testing, Installation & Commissioning of the complete system upto AC Distribution Board	
	Training of the staff deputed by National Institute of Technology, Tiruchirappalli	
	Providing a comprehensive warranty for two years from the date of successful commissioning	
	Break down maintenance during the warranty period.	
2.	<b>Scope of supply:</b>	
A	Crystalline Solar Modules with Silver Anodized Aluminum frame	
b	M.S galvanized Module Mounting Structures to mount Solar PV modules	
C	240VDC input, 415V, 3-phase, 50Hz output Power Conditioning Unit (PCU) consisting of charge controller and bidirectional inverter	
D	240V DC, maintenance free battery bank rated for two hour back up of 100kWp load	
E	Power and control cables and Hardware	
F	Communication interface	
G	Earthing kit	
H	Junctions boxes or combiners, AC distribution board	
I	Documentation	
J	Guarantee	

3	<b>SPECIFICATIONS OF MAJOR COMPONENTS OF THE SYSTEM</b>	
<b>a.</b>	<b>Solar Modules:</b>	The supplier/ manufacturer should specify details of the PV modules
	Individual Solar PV Module should be of capacity not less than 240Wp	
	Module efficiency Greater than 13%	
	Suitability for grid connected system Module output Multi contact plug	
	Certification : conforming to IEC-61215 ( Edition 2 or latest),IEC 61730 , IEC 61710 for corrosive protection and manufactured in India in a plant certified under ISO 9001 : 2008 & ISO 14001 and shall have, ESTI, UL, TUV and CE approval. (enclose copies of certificates). SPV modules should be type tested by any one of the three accredited test laboratories under MNRE (attach copies).	
	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. Transmissivity of glass shall be not less than 91%.	
	All materials used should have a proven history of reliable and stable operation in external outdoor applications.  The bird spike shall be provided to avoid bird sitting on the solar modules at the highest point of the array/module structure.	
	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.	
	The rated output of any supplied module shall not vary by more than 3-5% from the average power rating of all modules. Each module, therefore, has to be tested and rating displayed. (I-V characteristics curves).	
	All the modules should be supplied with RFID as per MNRE.	
	SPV module shall be highly reliable, light weight and shall have a service life of more than 25 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.	

	<b>Configuration of solar power plant as shown in Fig.1</b>	
b.	<b>Specifications for mounting stand:</b>	The supplier/ manufacturer should specify installation details of the PV modules and the foundation details.
	<p>The SPV array shall consist of PV modules fixed on mounting structure made of hot dip galvanized MS angles &amp; Pipes. All nuts &amp; bolts shall be made of good quality stainless steel SS304.</p> <p>The SPV module should have suitable number of crystalline silicon solar cells connected in series and hermetically sealed with high transmission toughened glass on top and suitable lamination material on back using state-of-the-art technology.</p> <p>The laminates should be framed using anodized aluminum channels.</p> <p>All materials used should have a proven history of reliable and stable operation in external outdoor applications.</p>	
	<p>A terminal block fixed on the frames should be provided for taking the electrical output.</p> <p>The SPV array shall be mounted south facing on support structure on the ground with approx. 29-31 Deg tilt.</p>	
	<p>The minimum clearance of the lowest part of the module structure and the developed ground level should be 500 mm.</p> <p>The array structure shall be grounded properly using maintenance free earthing kit as per IS: 3043-1987, tested &amp; certified by CPRI.</p>	
	<b>The mounting structure should withstand draft up to 200km/hr from back side of the panel.</b>	
<b>C</b>	<b>Power Conditioning Unit (PCU):</b>	
	The PCU shall consist of a charge controller and a bi-directional inverter which have their dc terminals connected to the dc bus output of the battery.	
	Output Voltage: 415 volts three phase, 4 wire, Nominal voltage shall be adjustable by $\pm 5\%$ via system set points.	
	<p>Output Frequency: <math>50\text{Hz} \pm 0.5\text{Hz}</math>; up to <math>\pm 3\text{Hz}</math> of the nominal output frequency Inverter to follow grid frequency during normal operation.</p> <p>In the absence of the grid, the solar power system should function as a UPS with nominal voltage and frequency output (same as the grid).</p>	
	Power rating: 110 kVA continuous ; 55kVA per unit if two units	

	<p>are installed for 100kWp solar system ,</p> <p>Over load capacity (for 30 sec.) shall be 150% of continuous rating,</p> <p>Waveform: Sine wave</p> <p>Total harmonic Distortion (THD): less than 3 %</p> <p>Efficiency: not less than 94 %</p> <p>PCU shall be capable to synchronize independently &amp; automatically/ to be phase locked with grid power line frequency to attain synchronization &amp; export power generated by the solar panel to grid in addition to supplying power to the loads.</p> <p>In the event of grid failure the PCU should sense and the solar PV output should get disconnected from the grid automatically. When the grid supply resumes, the PCU should resynchronize to the grid automatically and/or manually.</p>	
	<p>Control and protection features: Should include MPPT,</p> <p>Should be equipped with all required controls and emergency stops.</p> <p>PCU operation from 5° to 55° C,</p> <p>menu driven LCD keypad operator interface</p> <p>All parameters to be accessible through an industry standard communication link</p>	Vendor to specify type of control and details of the system controls
	<p>Degree of protection: IP-21</p> <p>Protections:</p> <ul style="list-style-type: none"> <li>○ Over voltage both at input &amp; output;</li> <li>○ Over current both at input &amp; output;</li> <li>○ Over/under grid frequency;</li> <li>○ Over temperature;</li> <li>○ Short circuit.</li> </ul> <p>Array ground fault detection,</p> <p>automatic fault conditions reset for all parameters like voltage, frequency and/or black out,</p> <p>MOV type surge arrestors on AC &amp; DC terminals for over voltage protection from lightning induced surges,</p> <p>Alarm signals: <b>Vendor to specify</b></p>	
<b>D</b>	<b>Maintenance free battery bank</b>	
	Battery voltage (nominal): 240V DC	
	Battery capacity: Adequate to provide two hours back up for 100kWp power	
<b>E</b>	<b>Power and control cables</b>	
	<b>Power Cables</b> of adequate rating shall be required for	

	<p>interconnection of :</p> <ul style="list-style-type: none"> <li>- Modules/panels within PV array</li> <li>- PV Array &amp; Charge Controller</li> <li>- Charge Controller &amp; Battery</li> <li>- Charge controller &amp; Inverter</li> <li>-battery and inverter</li> <li>-inverter and Solar Meter (SM)</li> <li>-AC distribution board and inverter</li> </ul> <p>The cable shall be 1.1 grade, heavy duty, stranded copper/ aluminium conductor, PVC type A insulated, galvanized steel wire/ strip armoured, flame retardant low smoke (FRLS) extruded PVC type ST-1 outer sheathed. The cables shall, in general conform to IS-1554 P+I &amp; other relevant standards.</p>	
	<p><b>Control Cables</b></p> <p>The cable shall be 1.1 grades, heavy duty, stranded copper conductor, PVC type A insulated, galvanized steel wire/strip armoured, flame retardant low smoke (FRLS) extruded PVC type ST-1 outer sheathed. The cables shall, in general conform to IS-1554 P+I &amp; other relevant standards.</p>	
	<p>The permissible voltage drop from the SPV Generator to the Charge controller shall not be more than 2% of peak power voltage of the SPV power source (generating system).</p> <p>In the light of this fact the cross-sectional area of the cable chosen is such that the voltage drop introduced by it shall be within 2% of the system voltage at peak power.</p> <p>All connections should be properly terminated, soldered and/or sealed from outdoor and indoor elements.</p> <p>Relevant codes and operating manuals must be followed.</p> <p>Extensive wiring and terminations (connection points) for all PV components is needed.</p>	
F	<p><b>Communication interface</b></p>	
	<p>The communication interface must be able to support</p> <ul style="list-style-type: none"> <li>• Real time data logging</li> <li>• Event logging</li> <li>• Supervisory control</li> <li>• Operational modes</li> <li>• Set point editing</li> </ul>	
	<p>The following parameters shall also be measured and displayed continuously.</p> <ul style="list-style-type: none"> <li>• Solar system temperature</li> <li>• Ambient temperature</li> <li>• Solar irradiation/insolation</li> <li>• DC current and Voltages</li> <li>• DC injection into the grid (one time measurement at the time of installation)</li> <li>• Efficiency of the inverter</li> <li>• Solar system efficiency</li> <li>• Display of I-V curve of the solar system</li> </ul>	



	<ul style="list-style-type: none"> <li>Any other parameter considered necessary by supplier of the solar PV system based on prudent practice.</li> </ul>	
	Data logger system must record these parameters for study of effect of various environmental & grid parameters on energy generated by the solar system	
G	Earthing kit	
	<p>Earthing is essential for the protection of the equipment &amp; manpower. Two main grounds needed are :</p> <ul style="list-style-type: none"> <li>-System earth</li> <li>-Equipment earth</li> </ul>	
	The provision for lightning & surge protection of the SPV power source & Charge controller is required to be made	
	<p>In case the SPV Array can not be installed close to the equipment to be powered &amp; a separate earth has been provided for SPV System, it shall be ensured that all the earths are bonded together to prevent the development of potential difference between ant two earths.</p> <p>Earth resistance shall not be more than 5 ohms. It shall be ensured that all the earths are bonded together to make them at the same potential.</p> <p>The earthing conductor shall be rated for the maximum short circuit current. &amp; shall be 1.56 times the short circuit current.</p> <p>The area of cross-section shall not be less than 1.6 sq mm in any case.</p>	
H	<b>Junctions boxes or combiners</b>	
	<p>Dust, water and vermin proof junction boxes of adequate rating and adequate terminal facility made of fire resistant Plastic (FRP) shall be provided for wiring.</p> <p>Each solar array shall be provided with fuses of adequate rating to protect the solar arrays from accidental short circuit.</p> <p>Array /Module Junction box IP 65 (weather resistant)</p>	
I	<p><b>Documentation:</b></p> <p>The following documents in English language should be supplied along with the system.</p> <p>Hard Copies - 3 Sets (Vendor to confirm)</p> <p>In CD form - 1 Set (Vendor to confirm)</p> <p>Operating manuals of System &amp; PCU.</p> <p>Maintenance manuals with drawings of PCU, system assemblies / sub-assemblies with parts list.</p> <p>Trouble shooting chart for main and all sub systems</p> <p>Catalogues, O&amp;M manuals for all bought out items used in the system.</p>	
j	<p><b>Guarantee:</b></p> <p>24 months performance guarantee for the system should be given from the date of successful commissioning.</p>	

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|--|--|--|
|  | <ul style="list-style-type: none"><li>▪ The SPV panels shall carry a warranty of minimum 25 years.</li><li>▪ The SPV panels must be warranted for their output peak watt capacity which should not be less than 90% at the end of 10 years and 80% at the end of 25 years</li><li>▪ The PCU/ inverter /battery charger/ Charge controller shall carry a warranty of minimum 5 years.</li><li>▪ The battery shall carry a warranty of minimum 5 years.</li><li>▪ The mechanical structures, electrical works including power conditioners/inverters/charge controllers/ maximum power point tracker units/ distribution boards/digital meters/ switchgear/ storage batteries etc. and overall workmanship of the SPV system must be warranted against any manufacturing/ design/ installation defects for a minimum period of 5 years.</li><li>▪ The warranty will be against breakages during transit, malfunctions, non-fulfilment of guaranteed performance and breakdowns due to manufacturing defects or defects that may arise due to malfunctioning of electrical / electronic components of the system <b>but do not include</b> physical damages by the end users.</li></ul> |  |
|--|--|--|

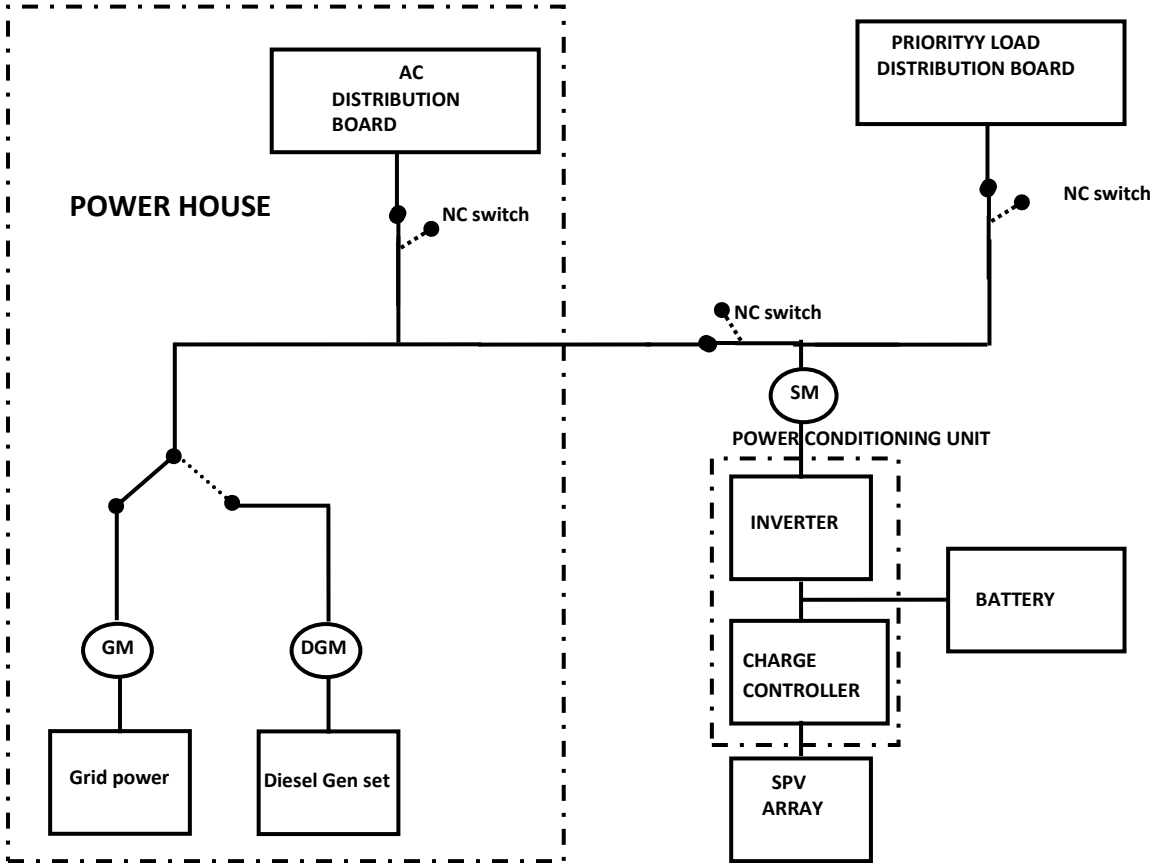


FIG. 1 SCHEMATIC DIAGRAM OF GRID-INTERACTIVE 100KW SOLAR POWER PLANT

# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI

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, NITT 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> <p>❖ <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 Tender No., Due Date and Address &amp; Reference of the Bidder.</p> <p>❖ <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 Tender 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. Both the envelopes (Part I&amp;II) shall be put in one cover, duly sealed, super scribing as "<b>Part I and Part II of Tender No., due date of opening</b>" 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><b>Director</b> <b>National Institute of Technology</b> <b>TIRUCHIRAPALLI - 620 015</b> <b>TAMIL NADU, INDIA</b></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>, 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. Part-II, Price bid of technically suitable Bidders alone would be opened after complete evaluation of Part-I.</p> <p>Date and time of Price Bid (Part-II) opening shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by NITT for Technical evaluation would be sought from bidders before opening of Part II - Price Bid</p>
3.	<p><b><u>TAXES AND DUTIES :</u></b></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST &amp; TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties.</p> <p><b>Income Tax applicable</b></p> <p>Any service charges payable towards supervision of E&amp;C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act.</p>

Bidder's Seal & Signature

# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI

Annexure-A

No row shall be left blank. Please indicate NA, in case the item is “not applicable”		Vendor's confirmation
4.	<p><b>Validity:</b> Validity of the offer should be <b>180 days</b> from the date of tender opening.                      Cost of Tender document: Rs.1560/- (non-refundable) : To be submitted by way of DD drawn in favour of “Director, NIT, Trichy” payable at Trichy. DD is to be submitted along with Part- I - Technical and commercial (unpriced bid). Cost of Tender document may be exempted for Government/PSU organizations.                      EMD of Rs. 50,000/- (refundable) by way of DD drawn in favour of “The Director, NIT, Trichy” payable at Trichy should be submitted along with Part- I - Technical and commercial (unpriced bid). EMD may be exempted for Government/PSU organizations.</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 (separate for supply and service portion if applicable) will be released on the successful vendor.</li> <li>➤ <b>Payment terms for Indian suppliers:</b> 100% payment, within 45 to 90 days, after receipt / acceptance / commissioning of the power plant at NIT, Tiruchi against submission of 10% PBG for total order value.</li> <li>➤ <b>Erection &amp; Commissioning Portion (if applicable only):</b> 100% of the Erection / commissioning charges (in case contract involves erection/commissioning) shall be paid only on completion of such erection / commissioning at NITT.</li> </ul>	
6.	<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 NITT, at no extra cost, 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>24 months</b> from the date commissioning of the power plant at NIT, Tiruchi, with a claim period of two months.                      Any generation loss on account of equipment failure/mal operation/ manufacturing defect shall be attended to within 48 hours of intimation. Otherwise penal charges at the rate of prevailing TANGEDCO rates for down time during sun shine hours shall be charged as decided by NITT. Pending penal charges shall be recovered from PBG.</p>	
7.	<p><b>Liquidated damages (LD):</b>                      It is clearly understood among the parties to the contract that <b>“Time is the essence of the contract”</b>. Therefore, the delivery of the goods specified in the purchase order should be made within the time prescribed. Where the seller supplies or dispatches the goods, beyond the delivery period specified, the purchaser will have no obligation to accept the goods. If accepted, Liquidated Damages at the rate of ½ % of the value of goods delayed for each week of delay subject to a maximum of 15% of the order value will be levied.                       For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered. <u>NITT reserves the right to reject offers from vendors not accepting the above LD clause, with maximum LD as 15%.</u></p>	
8.	<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>	
9.	<p><b>Delivery terms and evaluation process:</b>                      Indian Bidders should submit their offer on <b>FOR NITT, Tiruchy</b> basis. Packing &amp; Forwarding and Freight &amp; Insurance charges from works to NITT, Tiruchy, if extra, to be indicated separately from basic rate. Applicable % of ED &amp; Sales Tax, should be clearly indicated.  <b>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to NITT after deducting MNRE subsidy. Obtaining the subsidy shall be the responsibility of the supplier)</b></p>	

Bidder's Seal & Signature

# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI

Annexure-A

	No row shall be left blank. Please indicate NA, in case the item is “not applicable”	Vendor's confirmation
10.	<p><b>Guarantee:</b> Vendors shall provide a guarantee for a period of 24 months from the date of commissioning. Also, a PBG has to be given which shall cover the guarantee period (with additional 2 months as claim period). <u>Offers from vendors not accepting the requested guarantee period will be rejected.</u></p>	
11.	<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 warranty period shall be on FOR, NIT, Tiruchirappalli, basis.</p>	
12.	<p><b>Inspection &amp; Testing:</b> All goods shall be subject to inspection by NITT or its authorized representatives at supplier's works or at NITT. The supplier will not charge for the facilities provided for inspection of goods. However, final inspection and acceptance will be carried after installation at NIT, Tiruchirappalli.</p>	
13.	<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>	
14.	<ul style="list-style-type: none"> <li>➤ Point to point confirmation for the Technical Specification enclosed has to be provided. If there are any deviations, 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>➤ Indian bidders should submit the prices only in Indian Rupees.</li> <li>➤ List of customers to whom similar plant has been supplied along with performance certificates to be enclosed. Further, certificate to the effect of satisfactory maintenance, service / AMC etc post commissioning to be submitted.</li> <li>➤ Relevant catalogues to be attached</li> <li>➤ List of spare parts (if any) for two years operation and maintenance should be attached with part numbers.</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 where in the applicable Taxes and Duties Shall be clearly specified</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</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 to NITT).</li> <li>➤ NITT 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 NITT.</li> <li>➤ The vendor shall provide necessary drawings.</li> <li>➤ Any replacement during warranty period shall be supplied free of charge on FOR NIT, Trichy basis.</li> <li>➤ Disputes, if any, arising out of the contract, are subject to jurisdiction of the Madurai bench of the Honorable High Court of Madras</li> </ul>	
	<b>Bidder's Seal &amp; Signature</b>	

<b>15.</b>	<b>Company Details &amp; Contact</b>	
	Name & Full Address of the company:	
	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	
<b>16.</b>	<b>TO BE CONFIRMED BY VENDOR</b>	
	Country of origin:	
	Station of dispatch/Port of Shipment	
	Delivery Terms	
	Customs duty payable (in case of import)	
	<b>Packing &amp; Forwarding Charges, if any</b> ( in % or Lumpsum) ie. extra from basic rate	
	% of Excise Duty with cess or Countervailing duty (in case of import)	
	% of TAX (CST/VAT)	
	<b>Freight &amp; Transit Insurance</b> charges ( <b>extra if any</b> , in Lumpsum (or) percentage) from Dispatching station to NITT Tiruchirappalli,	
	Service tax applicable extra or not	
<b>17.</b>	Delivery from the date of Letter of Intent / Purchase Order.	
	Period for completion of the work at NITT shall be clearly specified in the offer	
<b>18.</b>	<b>Weight &amp; Cubage of package:</b> Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:	
<b>For any queries / clarifications the bidders may contact the purchaser through our FAX NO. +91 431 2500133 or through e-mail: msmoorthy@nitt.edu,baktha@nitt.edu</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:-**

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.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

Bidder's Seal & Signature

# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI

Annexure-B

## MODEL PRICE BID FORMAT FOR INDIAN BIDDERS

Tender No. & Date:

Bidder's Offer No. & Date:

Sl No.	Description of item	Unit (SET /No)	QTY	Rate /Qty in Rs. (excluding of all taxes)	ED in %	VAT/CST in %	Service Tax in %	Total Value in Rs. (inclusive of all taxes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	<b>Supply portion</b> (The price indicated shall be exclusive of all accessories, spares etc. as given in the scope of supply)							
2	Other accessories / spares etc as given in scope of supply (Individual item-wise break-up price shall be attached as an annexure to this price bid format.)							
3	Installation & Commissioning (extra, if any)							
4	Packing & Forwarding charges (extra, if any) in percentage (or) Lumpsum							
5	FOR Dispatching station value in Rs.							
6	Freight & Transit insurance charges, extra, if any (Lumpsum or %)							
7	Total all inclusive price delivered, installed and commissioned at NITT							
8	Less MNRE subsidy							
9	<b>Net cash outflow to NITT after deducting MNRE subsidy</b>							
10	Approximate Net weight of the total consignment							
11	Approximate Gross weight of the total consignment							
12	Approximate Dimensions of the Consignment							

Signature & Seal of Vendor

**The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"**