

TENDER ABSTRACT

Tender no.	C-DIT/3/GED/16/T456 Dt 15.6.16
Superscription	Supply of 2kWp Solar Photovoltaic Modules, 2KVA PCU, Tubular Battery for the installation of 2kWp Solar Power Plant in the Veterinary Hospital, Panangad Grama Panchayat, Kozhikode
Site details	Veterinary Hospital, Panangad Grama Panchayat, Kozhikode
Date for Site visit	28/29 th June 2016 (Refer clause 33)
Last date of submission of Tender	8.7.16, 3PM
Date and Time of opening the Tender	8.7.16, 3.30PM
Warranty period	5 years comprehensive onsite warranty for Battery and PCU 25 years performance warranty insisted by MNRE for Solar panel
Name and Address of the officer from whom Tender forms are to be obtained	Registrar, Centre for Development of Imaging Technology (C-DIT) Chitranjali Hills, Thiruvallom P.O, Thiruvananthapuram- 695 027, Kerala
Place of opening of tender	Centre for Development of Imaging Technology (C-DIT) Chitranjali Hills, Thiruvallom P.O, Thiruvananthapuram- 695 027, Kerala

Thiruvananthapuram
Date 15.06.16

Sd/ Registrar

I-A INSTRUCTION TO BIDDERS

1. Bid Submission

1.1 Bids shall be submitted in three envelopes named:

- i. Part-I
- ii. Part-II
- iii. Part-III

1.2 **Part -I** shall contain:

- a) Agreement in the prescribed format (Annexure I-D)
- b) Part-1 of the tender document duly signed by the bidder on all pages

1.3 **Part -II** shall contain:

- a) Part-II of the tender documents consisting of the General Conditions, Special Conditions, Technical **Specifications** (duly signed by the bidder on all pages)
- b) Details of the technical offer, including test certificates issued for the respective components/ models offered
- c) Declaration by the Bidder (format as in Annexure II-E)
- d) Statement of Deviations if any (format as in Annexure II-F)

1.4 If any of the bidders indicate price in Envelopes Part-I, Part - II, the bid will be summarily rejected.

1.5 **Part -III** shall contain the Price Schedule as per Part-III of tender document, duly signed by the tenderer/ authorised signatory of the tenderer.

1.6 The pages of the tender document, annexures and attachments should be serially numbered.

1.7 The tenders in three sealed envelopes (Part-I, Part - II and Part- III) as above will be put in a separate sealed envelope and superscripted "**Tender for the Supply, Installation & Commissioning of 2kWp Solar Power plant at Veterinary Hospital Panangad Grama Panchayat, Kozhikode District, Kerala**".

2. Opening of Bids

2.1 Tenders shall be opened at C-DIT Main Campus at Thiruvallom.

2.2 All envelopes will be opened at the time and date announced in the tender notice. If the bidder fails to submit the Agreement, then Envelope-Part-III will not be opened and the offer will be rejected.

3. Validity

3.1 The tender offer shall be kept valid for acceptance for a period of 6 months from the date of opening of offers. The offers with lower validity period are liable for rejection.

3.2 Further, the tenderer may extend the validity of the bids without altering the material and prices of their Bid for further periods, if so required

4. Deviations

The offers of the Tenderers with Deviations in Commercial terms and Technical Terms of the Tender Document are liable for rejection

5. Bidder's Location

The tenderers are requested to furnish the exact location of their factories/ godowns with detailed postal address and pin code, telephone and fax Nos. etc in their tenders so as to arrange inspection by C-DIT, if considered necessary.

6. Late offer

Any tender received by C-DIT after the due date and time specified for submission of the tender will be rejected. C-DIT will not be responsible for any postal or other transit delays in receipt of the tender

7. Technical Authority

The Director, C-DIT or the technical persons authorised by the Director will be the Technical Authority responsible for the evaluation of the Technical Bid.

ELIGIBILITY CRITERIA OF TENDERER

Only those firms which in their individual capacity, satisfy the following criteria, need to quote for this tender.

- a) The TENDERER shall be corporate entity or a registered society, association, partnership duly incorporated in India under the relevant Law and engaged in the business of Solar Streetlights. A copy of certificate of incorporation/Memorandum of Association/Article of Association or any other relevant document(s) as the

case may be furnished along with the bid in support of above. In the Memorandum and Article of Association, Article Number should be highlighted separately wherein above information has been mentioned.

- b) The TENDERER should be a channel partner of the Ministry of New and Renewable Energy (MNRE) for implementing Off-Grid Solar power solutions and should have support centres in Kerala. (Copy of order from MNRE to be furnished in support)
- c) The TENDERER should have valid CST/State VAT/TIN registration certificate. (Copy to be furnished in support)
- d) Any entity, which is barred by the Government of India or any State Government or any Government Instrumentality from participating in any project, and the bar subsists on the date of submission of tender, shall be ineligible to apply for tender.
- e) The Vendor should possess a minimum of 2 years experience in supply, erection and installation of Solar power plants in any reputed institutions (Details along with satisfactory performance from client should be provided)
- f) Technical specification parameter feature-wise item by item compliance of Tender is mandatory, substantiation of compliance shall be made on product already existing duly demonstrating and evidenced essentially on feature by feature of each parameter as per minimum requirements of Tender Technical specification.
- g) The bidder should submit documentary proof in regard to fulfilling these eligibility criteria along with their offer. The offers of bidders who do not meet the eligibility criteria as mentioned vide (a) to (f) above shall not be considered. Bidder may note that their Contract Agreement for this work is liable to be terminated at any time later, in case any of the information furnished by them is found to be untrue/false or any adverse point comes to light subsequently. The decision of the Registrar, C-DIT in this regard shall be final and binding.

I-B – BID QUALIFICATION REQUIREMENTS

8. Bid Qualification Requirements

8.1 An agreement in Rs.500/- Kerala stamp paper as per the format given in Annexure I-D must be enclosed.

8.2 Bidder must submit valid test certificates of the components (solar PV module, PCU and battery) proposed to be supplied/used. Bids without valid test certificates will be rejected.

PART-II – CONTENTS

A. Conditions of Contract

- 9. General Conditions
- 10. Special Conditions
- 11. Schedule of Supply
- 12. Payment
- 13. Service and maintenance

B. Technical Specifications

- Annexure II-C – Bidder's technical information summary
- Annexure II-D – Format of warranty card
- Annexure II-E – Declaration by the bidder
- Annexure-II-F – Statement of deviations

II-A –CONDITIONS OF CONTRACT

9. General Conditions of Contract

9.1 The tenders should be addressed to **The Registrar, C-DIT** in a sealed cover with the **TENDER NUMBER AND NAME** duly superscribed thereon.

9.2 Intending tenderers should send their tenders so as to reach The Registrar, C-DIT, on or before due date and time mentioned in the tender abstract. Late tenders will not be accepted.

9.3 The rates quoted should be only in Indian currency. Tenders in any other currency are liable to rejection.

9.4 The tenderer shall submit a copy of PAN card of the authorised signatory along with the tender.

9.5 Tenders subject to conditions will not be considered. They are liable to be rejected on that sole ground.

9.6 The tenders will be opened on the specified day and time in the office of **C-DIT, Thiruvallom, Thiruvananthapuram** in the presence of representatives of tenderers who may be present.

9.7 (a) The tenderer shall clearly specify whether the articles offered bear Bureau of Indian Standards Mark / IEC Certification or not. In such cases, they shall produce copies of certification mark along with their tender in support of it.

(b) Tenders shall clearly specify whether the goods are offered from indigenous sources from imported stocks in India or from foreign sources to be imported under a license.

9.8 The final acceptance/rejection of the tenders rests entirely with the Registrar, C-DIT who does not bind themselves to accept the lowest or any tender. C-DIT reserves the right to reject any or all tenders without assigning any reason whatsoever.

9.9 In the case of materials of technical nature, the successful tenderer should be prepared to guarantee satisfactory performance for a period of guarantee under a definite penalty.

9.10 Communication of acceptance of the tender normally constitutes a concluded contract. Nevertheless the successful tenderer shall also execute an agreement for the due fulfillment of the contract within the period to be specified

in the letter of acceptance. The contractor shall have to pay all stamp duty, Lawyer's charges and other expenses incidental to the execution of the agreement. Failure to execute the agreement within the period specified will entail the penalties set out below:

9.11 The successful tenderer shall before signing the agreement and within the period specified in the letter of acceptance of his tender, deposit a sum equivalent to 5% of the value of the contract as security for the satisfactory fulfilment of the contract.

9.12 In cases where a successful tenderer, after having made partial supplies fails to fulfill the contracts in full, all or any of the materials not supplied may at the discretion of the Purchasing Officer be purchased by means of another tender/quotation or by negotiation or from the next higher tenderer who had offered to supply already, and the loss if any caused to C-DIT shall thereby together with such sums as may be fixed by C-DIT towards damages be recovered from the defaulting tenderer.

9.13 If the contractor fails to deliver all or any of the stores or perform the service within the time/period(s) specified in the contract, the purchaser shall without prejudice to its other remedies under the contract, deduct from the contract prices, as liquidated damages, a sum equivalent to 1% of the delivered price of the delayed stores or unperformed services for each month of delay until actual delivery or performance, up to a maximum deduction of 10% of the contract price of the delayed stores and services. Once the maximum is reached, the purchaser may consider termination of the contract at the risk and cost of the contractor.

9.14 The Security deposit shall, subject to the conditions specified herein be returned to the contractor within Six months after the expiration of the contract but in the event of any dispute arising between C-DIT and the contractor, C-DIT shall be entitled to deduct out of the deposits or the balance thereof, until such dispute is determined the amount of such damages, costs, charges and expenses as may be claimed. The same may also be deducted from any other sum which may be due at any time from C-DIT to the contractor. In all cases where there are guarantee for the goods supplied, the security deposit will be released only after the expiry of the guarantee period.

9.15 All payments to the contractors will be made by the Registrar, C-DIT in due course by crossed account payee cheques.

9.16 Payments will be made only after the items are physically accepted in good condition by C-DIT.

9.17 The contractor shall not assign or make over the contract on the benefits or burdens thereof to any other person or body corporate. The contractor shall not underlet or sublet to any person or persons or body corporate the execution of the contract or any part thereof without the consent in writing of the C-DIT who shall have absolute power to refuse such consent or to rescind such consent (if given) at any time if he is not satisfied with the manner in which the contract is being executed and no allowance or compensation shall be made to the contractor or the subcontractor upon such rescission. Provided always that if such consent be given at any time, the contractor shall not be relieved from any obligation, duty or responsibility under this contract.

9.18 In case the contractor becomes insolvent or goes into liquidation, or makes or proposes to make any assignment for the benefit of his creditors or proposes any composition with his creditors for the settlement of his debts, carries on his business or the contract under inspection or behalf of or his creditors or in case any receiving order(s) for the administration of his estate are made against him or in case the contractor shall commit any act of insolvency or in case in which under any clause or clauses any act of insolvency or in case in which under any clause(s) of this contract the contractor shall have rendered himself liable to damages amounting to the whole of his security deposits, the contract shall, thereupon, after notice given by the Purchasing Officer to the contractor, be determined and C-DIT may complete the contract in such time and manner and by such persons as C-DIT shall think fit. But such determination of the contract shall be without any prejudice to any right or remedy of C-DIT against the contractor or his sureties in respect of any breach of contract committed by the contractor. All expenses and damages caused to C-DIT by any breach of contract by the contractor shall be paid by the contractor to C-DIT and may be recovered from him under the provisions of the Revenue Recovery Act in force in the State.

9.19 In case the contractor fails to supply and deliver any of the said articles and things within the time provided for delivery of the same, or in case the contractor commits any breach of any of the covenants, stipulations and agreements herein contained, and on his part to be observed and performed, then and in any such case, it shall be lawful for C-DIT (if they shall think fit to do so) to arrange for the purchase of the said articles and things from elsewhere or on behalf of C-DIT by an order in writing under the hand of the Registrar put an end to this contract and in case C-DIT shall have incurred sustained or been put to any costs, damages or expenses by reason of such purchase or by reason of this contract having been so put an end to or in case any difference in price, compensation, loss, costs, damages, expenses or other moneys shall then or any time during the continuance

of this contract be payable by the contractor to C-DIT under and by virtue of this contract, it shall be lawful for C-DIT from and out of any moneys for the time being payable or owing to the contractor from C-DIT under or by virtue of this contract or otherwise to pay and reimburse to C-DIT all such costs, damages and expenses they may have sustained, incurred or been put to by reason of the purchase made elsewhere or by reason of this contract having been so put an end to as aforesaid and also all such difference in price, compensation, loss, costs, damages, expenses and other moneys as shall for the time being payable by the contractor aforesaid.

9.20 Any some of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriated by the Registrar or any other person authorised by C-DIT and set off against any claim of C-DIT for the payment of a sum of money arising out of or under any other contract made by the contractor with C-DIT or any other person authorised by C-DIT. Any sum of money due and payable to the successful tenderer or contractor from C-DIT shall be adjusted against any sum of money due to C-DIT from him under any other contracts.

Every notice hereby required or authorised to be given may be either given to the contractor personally or left at his residence or last known place of abode or business, or may be handed over to his agent personally, or may be addressed to the contractor by post at his usual or last known place of abode or business and if so addressed and posted, shall be deemed to have been served on the contractor on the date on which in the ordinary course of post, a letter so addressed and posted would reach his place of abode or business.

The tenderer shall undertake to supply materials according to the standard specifications.

No representation for enhancement of rate once accepted will be considered.

The prices quoted should be inclusive all taxes, duties, cess etc. which are or may become payable by the contractor under existing or future laws or rules of the country of origin/supply or delivery during the course of execution of the contract.

The tenderer will invariably furnish the required certificates with their bills for payment-

"Certified that the goods which VAT has been charged have not been exempted under the VAT Rules made there under and the charges on account of sales tax on these goods are correct under the provisions of the relevant Act or the rules made there under certified further that we
..... (or our Branch or

Agent).....
(Address) are registered as dealers in the State of
..... under Registration No.
..... for purposes of sales tax.”

Special conditions, if any, of the tenderers attached with the tenders will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.

The tenderer should send along with his tender an agreement executed and signed in Kerala Stamp Paper of value **Rs.200/-**. A specimen form of agreement is given as Annexure I-D to this tender. Tenders without the agreement in stamped paper will be rejected outright.

Conditions in the technical document, technical specifications and special conditions of this tender document would override these general conditions, wherever applicable.

C-DIT, by notice sent to the Supplier, may terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for C-DIT’s convenience, the extent to which performance of the Supplier under the contract is terminated, and the date upon which such termination becomes effective.

Envelope Part-I shall be opened at the time and date announced in the tender notice. If the bidder has submitted the Agreement, Envelope Part-II also will be opened on the same day.

Envelope- Part-III (Price Bid) will be opened on the same day or opened later, the date of which will be intimated to the qualified tenderers.

In case any difference or dispute arises in connection with the contract, all legal proceedings relating to the matter shall be instituted in the Court within whose jurisdiction the Registrar, C-DIT voluntarily resides.

The Courts situated at the place where the headquarters of C-DIT is situated viz, Thiruvananthapuram alone will have jurisdiction to entertain civil suits and all other legal pertaining to this contract.

10. Special Conditions

10.1 Each bidder should submit only one bid. Any bidder who submits/participates in more than one bid for the work shall be disqualified.

10.2 The tenders will be opened in the presence of bidders present at the date and time advised in the Bidding Document. If the due date for receiving and opening the tender happens to be declared holiday, then the tender will be received and opened on the very next day, for which no prior intimation will be given.

10.3 During the technical evaluation period, C-DIT may seek more clarifications/details from any or all of the tenderers, if felt necessary.

10.4 The price bids of technically qualified tenderers only will be opened and the L1 bidder will be awarded the work of supply and installation of items after fulfilling all the requirements.

10.5 If found essential, C-DIT reserves the right, in the interest of completion of work within the time limit, to award portion/portions of the supply order to next higher bidders, called for negotiation in the increasing order of their price offers, if they agree to supply at the L1 price.

10.6 C-DIT reserves the right to increase / decrease the final quantity to be ordered without changing the unit price offered by the bidder.

10.7 Valid test certificate of the model offered / sub-components (SPV module, inverter charge controller and battery) as per the technical specification provided in this tender document, issued by MNRE or NABL or IEC approved labs, should be enclosed.

10.8 If more than one model with different sub-components (such as battery, modules or PCU) is offered for the price quoted, test certificates of the components (as per technical specifications provided in this tender document) should be submitted.

10.9 If more than one model is offered by the bidder (all meeting the required specifications), all of them should be offered at the same price. If different prices are listed, all the models will be considered against the lowest price offered only.

10.10 The rate quoted should be all inclusive including delivery of materials at the locations specified, and the cost of materials and labour for the civil works, AC/DC wiring, erection, testing and commissioning, warranties, taxes and duties.

10.11 The price quotes should be inclusive of initial cost of supply, installation, testing and commissioning, support during the warranty period of 5-years.

10.12 The tender offer shall be kept valid for acceptance for a period of 6 months from the date of opening of offers (envelopes). The offers with lower validity period are liable for rejection

10.13 The make and model of PCU, Battery and Module quoted in the tender must be same as that in the test certificate attached in the bid.

10.14 Two copies of design details and electrical installation drawing should be attached with the tender.

10.15 Bidder should provide Bill of Material mentioning the quantity of items along with the offer.

10.16 The inverter must be designed to give power to the load connected from a source listed below in the order of preference

(a) From Solar Array to Load connected.

(b) When module fails/cloudy days, supply from Battery bank to Load connected.

(c) When battery fails, supply from Grid to Load connected.

10.17 The inverter must be prevented from charging the battery from Grid at any circumstances.

10.18 The Check measurement of the work will be done by the Department of Electrical Inspectorate, Government of Kerala. On completion of the project, the successful bidder shall obtain a certificate of completion from the competent authority, Electrical Inspectorate and hand over to C-DIT.

10.19 The successful tenderer shall execute a tripartite agreement with the C-DIT and Veterinary Hospital, Panangad Grama Panchayat regarding the manufacturer's warranty conditions and maintenance support.

11. Schedule of Supply

11.1 The items should be delivered and installed at the Veterinary Hospital Panangad Grama Panchayat, Kozhikode District as specified by C-DIT, under prior intimation and supervision of C-DIT.

11.2 The supply and installation of the entire system shall be completed within 20 days of the date of supply order.

11.3 Supply of the main components such as SPV module, battery, inverter and charge controller should be effected as per the makes offered (with valid test certificates) with the tender.

11.4 Penalty for delay in supply and installation will be imposed at 5% per month up to a maximum 25%. In case of delay in supply and installation, C-DIT may cancel the contract and take recourse to other action as deemed appropriate.

12. Payment

12.1 No advance payment will be given. Payment will be released on receipt of invoices and successful installation and commissioning of power plant, certified by the concerned officer of C-DIT.

12.2 The terms of payment shall be:

- i. 90% of the invoice amount shall be paid on successful commissioning of the systems. The remaining 10% shall be retained as performance security as given below. Performance security shall not be released against bank guarantee.
- ii. 5% of the total amount shall be paid after one year
- iii. The remaining 5% shall be paid after the five-year warranty period
- iv. The security deposit of 5% furnished along with the contract agreement shall be released on completion of supply, installation and commissioning.

12.3 Income tax, other statutory deductions shall be made from the payment as per prevailing norms.

13. Service and maintenance

13.1 The faulty system or components should be replaced/ repaired within 15 days of fault reporting. The servicing should be carried out at the site of installation. The service personnel should visit the installations at least once in 3 months for preventive maintenance even if no faults are reported. Reports of these preventive maintenance visits should be given to the concerned officer of C-DIT on a quarterly basis. Delay in servicing beyond 15 days of fault reporting would attract penalty at the rate of Rs.2000 per system per fortnight or part thereof.

13.2 A designated contact Telephone Number and address should be submitted for reporting faults during the warranty period.

II-B – TECHNICAL SPECIFICATIONS

14. Scope of the Work

14.1 The scope covers supply, installation of one 2kWp off- grid solar photovoltaic power plant for demand side management in the Veterinary Hospital Panangad Grama Panchayat, Kozhikode in accordance with the electrical installation practices for building under IEC 60364-7-712 & SPV design comply with IEC 62124.

15. Location

Details of sites for the installation of a 2kWp Roof Top Solar Power Plant

Site: Veterinary Hospital Panangad Grama Panchayat, Kozhikode. The proposed location for installation of the SPV modules is on the roof top of Veterinary Hospital Panangad Grama Panchayat, Kozhikode. The PCU and battery can be housed near the Power plant.

16. Definition

Standalone solar PV power plant system comprises of C-Si (crystalline Silicon) solar PV modules with, lead acid battery bank, intelligent Off-Grid Inverter with MPPT charging technology which feeds uninterrupted quality AC power to electrical loads. Batteries will be charged from solar energy by charge controller integrated in the inverter or by an external charge controller with MPPT technology.

17. Duty Cycle

The system should be capable for operating specified no. of hours within an energy consumption of around 10kWh/day during a normal sunny day under average daily insolation of 5 kWh/sq.mt. on a horizontal surface.

18. Load

The system should be connected to the specified available load within the limits of 2 kW in 2kWp power plant.

19. SPV Modules

- Only indigenously manufactured, crystalline silicon cell PV modules of 250Wp or higher capacity should be used in the power plant

- The PV module should have IEC 61215 / IS14286 qualification certification for solar PV modules
- In addition, the module must conform to IEC 61730 Part-1 requirements for construction & Part-2 requirements for testing for safety qualification
- Shading correction/ bypass for optimizing array out to be incorporated in each solar module or panel level and shading optimization to be provided.
- Each PV module used in the project must use a RF identification tag (RFID), which must contain the following information. The RFID can be inside or outside the module laminate, but must be able to withstand harsh environmental conditions.
 - (i) Name of the manufacturer of PV Module
 - (ii) Name of the manufacturer of Solar cells
 - (iii) Month and year of the manufacture (separately for solar cells and module)
 - (iv) Country of origin (separately for solar cell and module)
 - (v) I-V curve for the module
 - (vi) Peak Wattage, I_m , V_m and FF for the module
 - (vii) Unique Serial No. and Model No. of the module
 - (viii) Date and year of obtaining IEC PV module qualification certificate
 - (ix) Name of the test lab issuing IEC certificate
 - (x) Other relevant information on traceability of solar cells and module as per ISO9000 series
- The following details should be provided on the module
 - i. Name of the manufacturer
 - ii. Month and year of manufacture
 - iii. Peak Wattage of the module
- The PV modules must be tested and approved by one of the IEC authorized test centres. Test certificates can be from any of the NABL/ BIS accredited Testing / Calibration Laboratories.
- The power output of the module(s) under STC should be a minimum of 2000 Wp for the 2kWp system
- PV modules used in solar power plants/ systems 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.

20. Power Conditioning Unit

20.1 Power Conditioning Unit (PCU) shall comprise of charge controller and MPPT unit with power optimiser, inverter, voltage stabilizer, and distribution panel along with necessary displays, indicators and alarms.

CHARGE CONTROLLER & MPPT

20.2 The control system should continuously adjust the voltage of the generator to optimize the power available. The power conditioner must automatically re-enter standby mode when input power reduces below the standby mode threshold. Front Panel display should provide the status and fault indication (if any)

20.3 The charge controller and MPPT should conform to following electrical parameters:

- a) Operational Voltage Range: 48V/... according to the battery bank and panel array
- b) Series disconnect, PWM type
- c) Controlling element: IGBT/ MOSFET
- d) The Charge controller/MPPT units should conform to IEC 60068-2 (1,2,14,30), if charge controller is not part of the inverter

20.4 Solid State MPPT based series pulse width modulation charger with minimum three stages (bulk, absorb and float)

20.5 Current rating as required for panel array and battery bank

20.6 Electronic protection for:

- a) Short circuit
- b) Overload
- c) Over temperature
- d) Reverse polarity

20.7 Auto resetting electronic over current protection

20.8 Digital LED/ LCD display of input SPV voltage and current, battery voltage and current. Separate indication for SPV charging shall also be provided. Battery Charge Level LED Indicator(s) – Low, Medium, High, Full. Battery Low indicator and Alarm/ cut-off.

INVERTER

20.9 A 24/48 or higher volt DC to 230 V AC 1 ϕ inverter for 2kWp solar PV system - Rated capacity of inverter should be 2kVA.

20.10 Will have following features preferably from Indian Manufacturer:

- a) Conform to IEC 61683/ IS 61683 for efficiency measurement, and IEC 60068-2 (1,2,14,30) or equivalent BIS standard for environmental testing.
- b) Type: Self commuted, current regulated, IGBT/ MOSFET based.
- c) Output voltage: Output voltage $230 \pm 2\%$ for 1 ϕ
- d) Output frequency: 50 Hz
- e) THD: Less than (<) 5%
- f) Efficiency: 85% or above at full load.
- g) Ambient temperature: 5 to 55°C
- h) Relative humidity: 90% Non-condensing

20.11 Protections:

- a) Short circuit (circuit breaker & electronic protection against sustained fault)
- b) Over-load protection
- c) Under voltage & Over-voltage of Battery and grid (automatic shutdown)
- d) Auto/ Manual re-connect provision
- e) Reverse polarity protection both for the PV array and Battery bank (DC)

20.12 Cooling: Air cooled

20.13 Other Features:

- a) Surge Protection: 150% of the rated capacity for a period of 10 seconds
- b) Provision for connection of Data-logger to monitor at least ten system parameters & events logs.
- c) Acoustic Noise Level ≤ 50 dB

20.14 Indicators / Displays / Alarms

- a) Digital Display(s) of input DC SPV voltage & current, along with Energy Meter
- b) Digital Display (s) AC output voltage, frequency, power and current
- c) Digital Display of output AC kWh meter (Daily/ Cumulative)
- d) Overload Alarm / cut-off
- e) System Cut-off Indicator
- f) System Reset Button

20.15 Electrical safety, earthing and protection

- a) Internal Faults: In built protection for internal faults including excess temperature, commutation failure, overload and cooling fan failure (if fitted) is obligatory.
- b) Over Voltage Protection: Over Voltage Protection against atmospheric lightning discharge to the PV array is required. Protection is to be provided against voltage fluctuations in the grid itself and internal faults in the power conditioner, operational errors and switching transients.
- c) Earth fault supervision: An integrated earth fault device shall have to be provided to detect eventual earth fault on DC side and shall send message to the supervisory system.
- d) Cabling practice: Cable connections must be made using PVC insulated copper cables, as per BIS specifications. All cable connections must be made using suitable terminations for effective contact. The PVC copper cables must be run in GL trays with covers for protection.
- e) Fast acting semiconductors type current limiting fuses at the main bus-bar to protect from the grid short circuit contribution.
- f) The inverter shall include an easily accessible emergency OFF button located at an appropriate position on the unit.
- g) All exposed surfaces of ferrous parts shall be thoroughly cleaned, primed and painted or otherwise suitably protected to survive nominal 30 years design life of the unit.
- h) The inverter enclosure shall be weatherproof and capable of surviving climatic changes and should keep the inverter intact under all conditions in the room where it will be housed. The inverter shall be located indoor and should be either wall/ pad mounted. Moisture condensation and entry of rodents and insects shall be prevented in the inverter enclosure. Components and circuit boards mounted inside the enclosures shall be clearly identified with appropriate permanent designations, which shall also serve to identify the items on the supplied drawings.
- i) All doors, covers, panels and cable exists shall be gasketed or otherwise designated to limit the entry of dust and moisture.
- j) All doors shall be equipped with locks. All openings shall be provided with grills or screens with openings no larger than 0.95 cm.

20.16 Factory Testing

- a) Operation of all controls, protective and instrumentation circuit shall be demonstrated by direct test if feasible or by simulation operation conditions for all parameters that cannot be directly tested.

- b) Operation of start-up, disconnect and shutdown controls shall also be tested and demonstrated. Stable operation of the inverter and response to control signals shall also be tested and demonstrated.
- c) Factory testing shall include measurement of phase currents, efficiencies, harmonic content and power factor.
- d) Factory testing of the Inverter/ Inverters should be carried out and witnessed by the Purchaser's Engineers at the manufacturer's premises, if necessary.

20.17 Automatic Change- Over Switch

There should be an Automatic Change-over System for Changing from PV System to Grid whenever the PV System could not provide the sufficient Power to the Load. (The Battery Charging should be done from PV Only)

20.18 Connected Load

Connected Load to the PV System should be within limits of the specifications of the Inverter/Power Conditioning System

21. Battery Bank

21.1 Battery bank comprising of flooded type lead acid tubular/ VRLA/ Gel batteries conforming to IEC 61427 or applicable IS standards should be supplied, installed, and commissioned.

21.2 Test certificate submitted should qualify the minimum requirements as per above standards for capacity test, ampere-hour efficiency test, watt-hour efficiency test, self-discharge test.

21.3 For 2kWp power plant, the battery bank will have a minimum rating of 9600Wh, 48V or higher

21.4 Battery capacity is rated C/10 at 27°C discharge rate. 75% of the rated capacity of the battery should be between fully charged & load cut-off conditions.

21.5 The following additional information on the batteries to be supplied:

- a) Overcharge voltage
- b) Load disconnect voltage
- c) Modules reconnect voltage

- d) Float voltage
- e) Temperature compensation required for proper operation
- f) Ampere-hour efficiency/ watt-hour efficiency
- g) Self-discharge (less than 3% per month at 30°C)

21.6 The following facility is also to be provided at each site for the maintenance of the flooded type batteries:

- a) Suitable ceramic vent plugs with float level indicators will be provided with the batteries

21.7 It will be staged on a suitable metal stand duly painted with acid resistant paint to cover less space.

22. Array Support Structure

22.1 Wherever required, suitable number of PV panel structures shall be provided. Structures shall be of flat-plate design using either I or L sections.

22.2 Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. Galvanizing should meet ASTM A-123 hot dipped galvanizing or equivalent, which provides at least spraying thickness of 70 microns on steel as per IS 5905, if steel frame is used. Aluminium frame structures with adequate strength and in accordance with relevant BIS standards can also be used.

22.3 Structures shall be supplied complete with all members to be compatible for allowing easy installation at the site.

22.4 The structures shall be designed to allow easy replacement of any module.

22.5 Each structure shall have a provision to adjust its angle of inclination to the horizontal as per the site conditions. Solar module should be inclined towards south direction and installed at latitude angle from the horizontal.

22.6 Each panel frame structure shall be so fabricated as to be fixed on the roof top column/ wall structures/ground. The structure should be capable of withstanding a wind load of 200 km/hr after grouting and installation. The front end of the solar array must be 30 cm above the roof top. Grouting material for SPV

structures shall be as per M15 (1:2:4) concrete specification. If the module arrays are installed on ground, proper PCC foundation to be provided and the bottom of the array should be elevated to a height of 1 metre from the ground.

22.7 The supplier shall specify installation details of the PV modules and the support structures with appropriate diagrams and drawings. Such details shall include, but not limited to, the following;

- a) Determination of true south at the site
- b) Array tilt angle to the horizontal, with permitted tolerance
- c) Details with drawings for fixing the modules
- d) Details with drawings for fixing the junction/ terminal boxes
- e) Interconnection details inside the junction/ terminal boxes
- f) Structure installation details and drawings
- g) Electrical grounding (earthing as per BIS specifications) and surge protections.
- h) Inter-panel/ inter-row distances with allowed tolerances; and
- i) Lightning protection for PV array.
- j) Safety precautions to be taken.

22.8 The array structure shall support SPV modules at a given orientation and absorb and transfer the mechanical loads to the rooftop column properly. Detailed design and drawing shall be submitted to C-DIT for acceptance and approval before execution of work. The supplier shall obtain necessary approval from the Department of Electrical Inspectorate, Government of Kerala before commencing the work.

23. Earthing and Surge Protection.

Surge Protection Device (SPD): Internal Surge Protection shall consist of 3 MOV type arresters connected from +ve and -ve terminals to earth (Via Y arrangements) for higher withstand of the continuous PV-DC voltage during earth fault condition. SPD shall have safe disconnection and short circuit interruption arrangements through integrated DC in-built bypass fuse (parallel) which should get tripped driving failure mode of MOV, extinguishing DC arc safely in order to protect the installation against five hazards. Nominal discharge current at 8/20 microseconds shall be minimum 10 kA with maximum discharge at 8/20 microseconds and minimum 20 kA with visual indication in module to monitor the life of SPD.

Earthing for PV Array:

- a) The PV module, BOS and other components of power plants require adequate earthing for protecting against any serious fault as guided by IEC 60364
- b) The earthing for array and LT power shall be made as per the provisions of IS:3043
- c) Necessary provision shall be made for bolted isolating joints of each earthing pit for periodic checking of earth resistance.
- d) Each String/Array and MMS of the plant shall be grounded properly. The array structure has to be connected to earth pit as per IS standards. Necessary provisions shall be made for bolted isolating joints of each earthing pit for periodic checking or earth resistance.
- e) The complete earthing system shall be mechanically & electrically connected to provide independent return to earth.
- f) For each earth pit, a necessary test point shall be provided.
- g) In compliance to Rule 11& 61 Of Indian Electricity Rules,(1956(as amended up to date), all non-current carrying metal parts shall be earthing with two separate and distinct earth continuity conductors to an efficient earth electrode.
- h) The bidder shall submit the detailed specification for the earthing arrangements.
- i) In compliance to Rule 11& 61 Of Indian Electricity Rules,(1956(as amended up to date), all non-current carrying metal parts shall be earthing with two separate and distinct earth continuity conductors to an efficient earth electrode.
- j) The bidder shall submit the detailed specification for the earthing arrangements.

24. Lightning Protection for PV Array

- a) The source of over voltage can be lightning or other atmospheric disturbance. Main aim of over voltage to tolerate level before it IEC 60099.
- b) Necessary concrete foundation for holding the lightning arrester in position to be made after giving due consideration to shadow on PV array, maximum wind speed and maintenance requirements at site in future.
- c) The lightning conductor shall be earth through flats and connected the earth mats as per applicable Indian standard with earth pits. Each lightning conductor shall be fitted with individual earth pit as per the requirement & standards, including accessories and providing masonry enclosure with cast

iron cover plate having locking arrangements, watering pipe using charcoal or coke and salt as required as per the provisions of IS.

- d) If necessary more numbers of lightning conductors may be provided.
- e) The bidder shall submit the drawing and detailed specifications of the PV Array lightning protection system

25. AC Distribution Panel Board

AC Distribution Panel Board (DPB) shall control the AC power from inverter and should have necessary surge arrestors.

26. Connected Load

Connected Load to the PV System should be within limits of the specifications of the Inverter/ Power Conditioning System.

27. Manual Change- Over Switches & Energy Meter

27.1 Necessary Change-over switches with suitable capacity (2-pole 2-way) shall be provided by the supplier to connect the PCU to the load. The change-over switch shall be used to switch the load to utility power in case of emergency.

27.2 The above Change - Over Switch will be the additional emergency requirement if the Automatic Change – Over Switch fails.

27.3 Separate digital energy meter shall be provided to display the energy consumed from solar power plant.

28. Cables, switches and general requirements

28.1 PVC insulated copper cables with current rating suitable for AC and DC as per the National Electric Code, and meeting:

- a) General Test and Measuring Method as per IEC 60189/ IS 694
- b) PVC insulated cables for working voltages up to 1100 V and UV resistant for outdoor installation as per IEC 60502/ IS 1554 (Pt. I & II)

28.2 Cable Marking: All cable/wires are to be marked in proper manner by good quality ferrule or by other means so that the cable can be easily identified.

28.3 Switches/ circuit breakers/ connectors meeting general requirements and safety measurements as per IS 60947 Part I, II, III and EN 50521 for AC/DC.

28.4 Junction boxes, enclosures for inverters/ charge controllers shall meet IP 65 (for outdoor)/ IP 21 (for indoor) as per IEC 62208.

29. Warranty

29.1 5 years warranty should be provided by the supplier for the system and components or part of the system has to be provided as per the special conditions of the contract.

29.2 PV modules used in solar power plants/ systems 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

29.3 The Warranty Card to be supplied with the system must contain the details of the system supplied, as given in the Annexure II-D.

30. Operation Manual

30.1 An Operation, Instruction and Maintenance Manual, in English and Malayalam should be provided with the system.

30.2 The following minimum details must be provided in the manual:

- a) About Photovoltaic
- b) About solar power plant – its components and expected performance.
- c) About PV module
- d) About battery
- e) About electronics
- f) About charging and significance of indicators
- g) DO's and DON'T's
- h) Clear instructions on regular maintenance and trouble shooting of solar power plant
- i) Name and address of the contract person in case of non-functionality of the solar power plant.

31. Bill of Material

31.1 The bidder should provide the bill of material mentioning the quantity of each of the item consisting in the system, along with the offer.

32. Display board

32.1 Display board containing logo of C-DIT shall be prominently displayed.

33. Site inspection

33.1 It is recommended that the bidders visit the sites for the physical verification and for correctly estimating the quantity, especially related to structure and cabling, if required, before submitting the bids. In that case the bidders have to intimate C-DIT @ Phone Number-9895788334 before 25.6.16 The date for site visit is scheduled on **28/29 th June 2016**.

I-C – SUMMARY OF BID QUALIFICATION REQUIREMENTS

(To be filled in by the bidder)

1. Name of the bidder	
2. Address in full	
3. Contact Details	
Mobile Land Phone Fax Email	
4. Name and Designation of the authorised signatory	
5. Agreement submitted (Yes/ No)?	
6. Test certificates corresponding to the models/ components offered (solar PV module, battery, and PCU) are submitted (Yes/No)?	
7. Nearest Support Centre Details Name of the Technical Person Address Mobile Land Phone	

Documentary evidence for all the bid qualification requirements are submitted along with this document and the details furnished above are true and correct.

Signature of authorised signatory

Name

Designation

Date: (Office Seal)

I-D PROFORMA OF "AGREEMENT"

(To be executed on non-Judicial Stamp Paper)

This Agreement made this. day of Two thousand and Between Centre for Development of Imaging Technology, a Society, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII of 1955, having its registered Office at Chitranjali Hills, Thiruvallom, Trivandrum 695 027 (hereinafter referred to as "C-DIT" which expression shall include its administrators, successors, executors and assigns) of the one part and a company/firm incorporated under the.. having its registered Office at (hereinafter referred to as the "Contractor" or "X" (brief name of contracting Co.) (which expression shall include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS C-DIT has invited bids for (briefly describe scope of the (work) as per its specification Ref. No.

AND WHEREAS..... "X" had participated in the above referred bidding vide their proposal No. dated and C-DIT accepted their aforesaid proposal and awarded the dated and C-DIT accepted their aforesaid proposal and awarded the contract to. "X" on terms and conditions contained in its letter of Indent/Work Order No. dated And the documents referred to therein, which have been accepted by "X" resulting into a "Contract"

NOW THEREFORE THIS DEED WITNESSETH AS UNDER:-

Article 1.0 AWARD OF CONTRACT

C-DIT has awarded the contract to "X" for the work of on the terms and conditions contained in its letter of Indent/Work Order No. dated and the documents referred to therein. The award has taken effect from.i.e. the date of issue of the aforesaid Letter. The terms & expressions used in this Agreement shall have the same meaning as are assigned to them in the "Contract Documents" referred to in the succeeding Article.

Article 2.0 CONTRACT DOCUMENTS

The Contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as "Contract Documents").

Article 3.0 CONDITIONS & CONVENANTS

The scope of Contract, Consideration, Terms of payment, price Adjustment, Taxes wherever applicable, Insurance, liquidated Damages, performance, Guarantee and all other terms and conditions are contained in C-DIT's Work Order No. dated read in conjunction with other aforesaid Contract documents. The Contract shall be only performed by the Contractor strictly and faithfully in accordance with the terms of the Agreement.

The scope of work shall also include supply and installation of all such items which are not specifically mentioned in the contract Documents, but which are needed for successful, efficient, safe & reliable operation of the equipment unless otherwise specifically excluded in the specifications under ""exclusions" or Work Order.

TIME SCHEDULE: Time is the essence of the contract and schedules shall be strictly adhered to. "X" shall perform the work in accordance with the agreed schedule as given in letter of Indent/Work Order.

The Contractor guarantees that the equipment package under the contract shall meet the ratings and performance parameters, as stipulated in the Technical Specifications (Volume II) and in the event of any deficiencies found in the requisite performance figures, the C-DIT may at its option reject the equipment package or alternatively accept it on the terms and conditions and subject to levy of the liquidated damages in terms of Contract Documents. The amount of liquidated damages so leviable shall be in accordance with the Contract Documents and without any limitation.

It is further agreed by the Contractor that the Contract performance Guarantee shall in no way be construed to limit or restrict the C-DIT's right to recover the damages/compensation due to short-fall in the equipment performance figures as stated in para 3.4 above or under any other clause of the Agreement. The amount of damages/Compensation shall be recoverable either by way of deduction from the contract price, contract performance guarantee and/or otherwise.

The Contract performance Guarantee furnished by the Contractor is irrevocable and un-conditional and the C-DIT shall have the powers to invoke it

notwithstanding any dispute or difference between the C-DIT and the contractor pending before any court, tribunal, arbitrator or any other authority.

This Agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency of repugnancy to the terms and conditions contained in the Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorised representatives of both the parties.

Article 4.0 SETTLEMENTS OF DISPUTES

It is specifically agreed by and between the parties that all the differences or disputes arising out of the Agreement or touching the subject matter of the Agreement shall be decided by the provisions of the Arbitration & Conciliation Act 1996 and Kerala Courts alone shall have exclusive jurisdiction over the same.

NOTICE OF DEFAULT

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties here to if delivered against acknowledgement or by telex or by registered mail with acknowledgement due addressed to the signatories at the addresses mentioned hereinabove.

IN WITNESS WHEREOF, the parties through their duly authorised representatives have executed these presents (execution where of has been approved by the competent authorities of both the parties) on the day, month and year first above mentioned at Trivandrum.

WITNESS

C-DIT

1.

(Signature)

(Name)

2.

(Designation)

(Seal)

1.

(Contractors signature)

(Designation)

(Seal)

2.

II-C – BIDDER’S TECHNICAL INFORMATION SUMMARY

(To be filled in by bidder. Use copies, for each model offered)

1.	Name of the bidder as in registration certificate	
2.	Address in full	
3.	Contact Details Mobile Land Phone Fax No. Email address	
4.	Name of the authorised signatory	
5.	Designation of the authorised signatory	
6.	Whether the bidder is a bonafide manufacturer/integrator of the item tendered?	

Details of main components in the systems offered and the test certificates

(If multiple makes/ models are offered, separate sheets with all these details should be attached for each make/ model)

S/N	Criteria	PV Module	Inverter	Charge controller	Battery
1.	Make offered				
2.	Model offered				
3.	Lab from which Test certificate obtained				
4.	Test certificate No.				
5.	Date of test certificate				
6.	Standards to which it complies, as per test certificate				
7.	Copy of test certificate enclosed at page no. (of this tender submission)				

I have read the General Conditions, Special Conditions and Technical Specification of this tender and hereby agree to participate in the tender strictly adhering to the condition and the details furnished along with bid are true and correct.

Signature of authorised signatory

Name

Designation

Date:

ANNEXURE II-D – FORMAT FOR WARRANTY CARD TO BE SUPPLIED THE SOLAR POWER SYSTEM

1.	Name & Address of the Bidder/Bidder of the System	
2.	Name & Address of Purchasing Agency	
3.	Date of supply of the system	
4.	Details of PV Module(s) supplied in the system Make Model Serial No(s). Wattage of the PV Module(s) under STC Warranty valid up to	
5.	Details of Battery (If supplied) Make Model Batch/Serial No(s). Rated V & Ah capacity at C/10 rate at 27°C Warranty valid up to	
6.	Details of Electronics & other BOS items including (Inverter, Charge controller if any) System Make Model Serial No(s). Warranty valid up to	
7.	Designation & Address of the person to be contacted for claiming Warranty obligations	

Signature of authorised signatory
Name
Designation

Date:

ANNEXURE II-E – DECLARATION BY THE BIDDER

Tender Notification No.: C-DIT/3/GED/16/T456 Dated 15.6.16 for Supply and Installation of 2kWp Solar Photovoltaic Power Plant in the Veterinary Hospital Panangad Grama Panchayat, Kozhikode

Tender notification Date

To
The Registrar
C-DIT

We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Document, including Addenda No.: (if any)
2. We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule
3. Our Bid shall be valid for a period of 6 months from the date fixed as deadline for the submission of tenders in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
4. If our Bid is accepted, we commit to submit a Security Deposit in the amount of 5 percent of the Contract Price for the due performance of the Contract;
5. We are not participating, as Bidders, in more than one Bid in this bidding process;
6. Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the C-DIT or Government of Kerala;
7. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
8. Our firm has obtained the certifications from MNRE or NABL approved Test laboratories that the goods and services are satisfying the technical criteria specified in the bid.

Signature
Name
Date

ANNEXURE II-F – STATEMENT OF DEVIATIONS

Name of Work: Supply and Installation of 2kWp Solar Photovoltaic Power Plant in the Veterinary Hospital, Panangad Grama Panchayat, Kozhikode

Tender No: C-DIT/3/GED/16/T456 Dated 15.6.16

Name and Address: To The Registrar, C-DIT Thiruvananthapuram

Dear Sir,

Sub:- Deviations from bid conditions relating to bid No. for the Supply and Installation of 2kWp Solar Photovoltaic Power Plant in the Veterinary Hospital Panangad Grama Panchayat, Kozhikode. In respect of whatever has been stated to the contrary anywhere else in our offer, only the following are the deviations and variations from the exception to the specifications and documents for the subject Tender No..... These deviations and variations are exhaustive, except these deviations. The entire supply and installation will be effected as per your bid specifications and documents. Further I/We agree that additional conditions, if any, found in the offer other than those stated below, except those pertaining to any rebates offered/reductions in cost to the C-DIT shall not be given effect to. I/We also certify that the financial implication of these deviations if to be withdrawn has been furnished.

Signature of the tenderer



Centre for Development of Imaging Technology (C-DIT)

TENDER DOCUMENT

Supply, Installation and Commissioning of
2kWp Solar Photovoltaic Power Plant in the
Veterinary Hospital Panangad Grama Panchayat, Kozhikode

Tender No. C-DIT/3/GED/16/T456 Dated 15.6.16
Last date for Tender Submission: 2PM

PART-III

Company Name	
Name and designation of Authorised Signatory :	
Signature	

PART III A – PRICE SCHEDULE

Tender no. C-DIT/3/GED/16/T456 Dated 15.6.16 for the Supply of 2kWp Solar Photovoltaic Power Plant in the Veterinary Hospital , Panangad Grama Panchayat , Kozhikode

Name of the Bidder:

Sl. No.	Item	Capacity	Basic Price (all inclusive except tax) (Rs.)	CST/ KVAT @ (Rs.)	All inclusive amount (Rs.)	Subsidy available under JNNSM (Rs.)	Net amount (Rs.)
[1]	[2]	[3]	[4]	[5]	[6] = [4]+[5]	[7]	[8] = [6]-[7]
NET AMOUNT QUOTED(*)							

Net amount after subsidy in words: Rupees.....

(*) If the net amount quoted in words and figures differ, the amount mentioned in words will be taken for acceptance

Date:

(Office seal)

Signature of the Bidder
(Authorised signatory)
Name
Designation

PART III B- PRICE SCHEDULE

Tender no. C-DIT/3/GED/16/T456 Dated 15.6.16 for the Installation of 2kWp Solar Photovoltaic Power Plant in the Veterinary Hospital, Panangad Grama Panchayat , Kozhikode

Name of the Bidder:

Sl. No.	Item	Capacity	Basic Price (all inclusive except tax) (Rs.)	CST/ KVAT @ (Rs.)	All inclusive amount (Rs.)	Subsidy available under JNNSM (Rs.)	Net amount (Rs.)
[1]	[2]	[3]	[4]	[5]	[6] = [4]+[5]	[7]	[8] = [6]-[7]
NET AMOUNT QUOTED(*)							

Net amount after subsidy in words: Rupees.....

(*) If the net amount quoted in words and figures differ, the amount mentioned in words will be taken for acceptance

Conditions

1. The net amount quoted should be all inclusive including delivery of materials at the locations specified, and the cost of materials and labour for the civil & electrical works, erection and commissioning, warranties, taxes, duties and after deducting MNRE Capital Subsidy.
2. The final rates quoted should be after deducting all subsidies to be given by Govt., of India.
3. The evaluation of the financial bid will be based on the Net amount quoted. C-DIT will pay the net amount only
4. C-DIT will not provide any assistance in processing subsidies.
5. Taxes & duties will be paid on production of documentary evidence.

Date:

(Office seal)

Signature of the Bidder
(Authorised signatory)
Name
Designation