

**GOVERNMENT OF TAMILNADU**  
**DEPARTMENT OF TECHNICAL EDUCATION**  
**GOVERNMENT COLLEGE OF ENGINEERING BODINAYAKKANUR-625 582**  
**Telephone No.: 04546-282 555**  
**NOTICE INVITING E-TENDER**

Tender Inviting Authority	The Principal, Government College of Engineering, Bodinayakkanur-625 582. Theni District Tamil Nadu Phone:04546-282555
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**Tender No: GCEBN/01780 / A3 / EEE / 2021      Dated:24.06.2021**

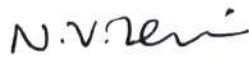
E-Tenders are invited through online under two Bid system for the **Supply of 1 kW SOLAR WITH GRID CONNECTED STANDALONE SYSTEM for Renewable Energy Systems Laboratory of Electrical and Electronics Engineering Department** as detailed below at Government College of Engineering Bodinayakkanur-625 582. Detailed Technical Specification of the equipment's to be supplied are given in the Annexure.

**TERMS AND CONDITIONS:**

1. The Bidders interested in participating the e-Tender must be registered with Tamilnadu e-procurement system portal and also should have Digital signature certificate.
2. Bidders should submit their bids in two bids system through online ([www.tntenders.gov.in](http://www.tntenders.gov.in)) in prescribed format only.
  - (i) **Technical Bid** – shall be submitted along with self-attested scanned copies of necessary documents in .pdf format.
  - (ii) **Financial Bid** –
    - a) In xls format only (Excel format).
    - b) Rate & Tax per unit (**for single unit only**) should be mentioned separately
    - c) Rates quoted by Bidders should be firm & Final
    - d) Prices should be quoted only in Indian Rupees (INR).
    - e) Price should be inclusive of all Freight, Insurance, Packing, Loading & Unloading, Delivery charges etc.
3. Tenders in any other manner will not be accepted.
4. Bidders should have local office in Tamil Nadu.
5. Bidders must not be blacklisted by Government of Tamil Nadu.
6. The Bidders must have valid
  - a) PAN

b) Valid GST Registration Number. (Bids without GST registration Copy will be rejected).

7. Each bidder should clearly specify that the bidder agrees to abide the conditions of this tender document on their printed letter head duly sealed & signed by an authorized person
8. Bidders should upload PAN, GST & Authorization letter / Certificate from OEM in Technical bid cover
9. Validity of the bid should not be less than **90 days**
10. Warranty should not be less than **1 year** (It will start after the date of Successful Installation).
11. Delivery of the item should be done at Government College of Engineering Bodinayakkanur-625 582
12. Mode of payment through ECS of supplier's bank account (100% payment will be given only after the goods are received in good condition and installation is completed).
13. No Advance payment will be made.
14. As per Tamilnadu Transparency in Tender Act 1998 and Tamilnadu Transparency in Tender Rules 2000
  - a) Government College of Engineering Bodinayakanur -625 582 reserves the right to modify reduce and increase the quantity required.
  - b) Withhold any amount for the deficiency in service aspect of the ordered items.
15. The Final decision would be based on the Technical Capacity and pricing of the bidder.
16. The Principal, Government College of Engineering Bodinayakkanur-625 582 reserves the right, not to accept lowest price or to reject any or all the tenders without assigning any reasons.
17. The Principal, Government College of Engineering Bodinayakkanur, reserves the right to call off tender process at any stage without assigning any reasons.

  
**HOD / EEE**

  
**(Tender Inviting uthority)**  
**Principal**  
**Government College of Engineering**  
**Bodinayakkanur-625 582**

**ANNEXURE**

<b>S.No</b>	<b>Detailed Specification</b>	<b>Quantity Required</b>
1	<p><b><u>1 kW SOLAR WITH GRID CONNECTED STANDALONE SYSTEM</u></b></p> <p><b>i. Experimental Panel</b></p> <ul style="list-style-type: none"> <li>• Inverter module (1Φ,1000W) Single Phase OFF Grid</li> <li>• Inverter module (1Φ,1000W) Single Phase ON Grid</li> <li>• Charge controller module (MPPT)</li> <li>• Battery(12V/65AHx2Nos)</li> <li>• AC Lamp load</li> <li>• DC LED Lamp load</li> <li>• Resistive Load – Rheostat</li> <li>• Panel meters</li> <li>• <b>Inverter [OFF GRID]</b> <ul style="list-style-type: none"> <li>* Input 20V to 45V DC.</li> <li>* Output 220VAC/1000W (max)</li> </ul> </li> <li>• <b>Inverter [ON GRID]</b> <ul style="list-style-type: none"> <li>* Input 20V DC to 45V DC</li> <li>* Output: 230VAC/1000W (Max)</li> </ul> </li> <li>• <b>Charge controller</b> <ul style="list-style-type: none"> <li>* MPPT method.</li> <li>* All terminals are terminated with banana connector.</li> </ul> </li> <li>• <b>Battery</b> <ul style="list-style-type: none"> <li>* Rating 12V/65AHx2Nos.</li> <li>* Maintenance free.</li> </ul> </li> <li>• <b>AC Load with 10 Switches</b> <ul style="list-style-type: none"> <li>* 10 Nos of 60W Lamp with holders.</li> <li>* 10 Nos of SPDT 5A switches ON/OFF.</li> </ul> </li> <li>• <b>DC Load with 2 switches</b> <ul style="list-style-type: none"> <li>* Input 24V/6W.</li> <li>* LED Load.</li> <li>* 2 Nos of SPDT switches ON/OFF.</li> </ul> </li> <li>• <b>Resistive Load</b> <ul style="list-style-type: none"> <li>* Rheostat type.</li> <li>* To load the solar panel to get the characteristics.</li> </ul> </li> <li>• <b>Panel Meter</b> <ul style="list-style-type: none"> <li>* Panel meter is used to read all the input and output current and voltages in different places.</li> <li>* Analog Voltmeter. - 3Nos (solar/battery/ inverter Voltage)</li> </ul> </li> </ul>	01 set

- \* Analog Ammeter. - 3Nos (solar/battery/ inverter Current)
- \* Digital temperature meter with temperature sensor.

**ii. Solar Panel with stand**

- Solar panel -1000W.
- Mechanical setup (Tilting)
  - \* Setup is provided to fix the solar panel sunlight which is fall on solar panel.
  - \* Solar panel arrangement with Two axis rotation
  - \* Different direction for study the Various Irradiation
  - \* Direct sunlight needed (Outdoor solar panel)
  - \* Shading arrangement for one panel

**iii. Inclination Meter**

**iv. Digital handheld solar power meter**

*N.V. Veni*

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