



THE NATIONAL UNIVERSITY OF ADVANCED LEGAL STUDIES

(Established by Act 27 of 2005 of the Kerala Legislature)

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**Notice Inviting E-Tender**

Tender No: NUALS/ADMN/ENGG/A4/2363-F/01/2021

Dated: 06.08.2021

The National University of Advanced Legal Studies, , HMT Colony P.O, Kochi-683503 invites online bids in two cover system for “Design, Supply, Installation, Testing and Commissioning of 100 kWp Grid Interactive SPV Based Solar Power System with ” from ANERT/ MNRE registered firms using State Plan fund.

Sl No	Name of the Work	Design, Supply, Installation, Testing and Commissioning of 100 kWp Grid Interactive SPV Based Solar Power System
1	Probable Amount of Contract	Rs.60,00,000/-
2	Earnest Money Deposit (EMD)	Rs.1,20,000/-
3	Tender Submission Fee	Rs.2800/-
4	Period of completion	60 days
5	Tender documents	Can be downloaded from e-GP Website <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>
6	Last date and time of Receipt of Online Tender/ Bids	4 P.M on 31.08.2021
7	Date and Time of Opening of Online Tender	11 A.M On 02.09.2021
8	Warranty	5 years comprehensive on-site warranty

1. The Bid should be submitted online at website <http://etenders.kerala.gov.in> in the relevant covers only, by the due date and time, as specified in the “critical Dates” view of the “Work Item details” of the tender. Late/delayed tenders submitted online after the due date and time, for whatsoever reasons will not be considered. The Server Date & Time as appearing on the website. <http://etenders.kerala.gov.in> shall only be considered for the critical date and time of tenders. Offers sent through post, telegram, fax, telex, e-mail, courier will not be considered.
2. Partially completed/incomplete bids shall not be considered.
3. All communication regarding the tender including queries if any and submission of offers shall be done online within the e-Procurement system at website <http://etenders.kerala.gov.in>.
4. Bidders shall be required to arrange all resources, including Digital Signature Certificates and Internet Connections at their own cost, for participating in online tenders at <http://etenders.kerala.gov.in>.
5. The University will not be responsible for any error like missing of schedule data while downloading/ uploading by the Bidder.
6. The University reserves the right to accept or reject any tender without assigning any reason thereof.
7. An online two cover process is being adopted for the project:
  - a. Stage – I Involves evaluation of technical conditions of the bidders based on their bids.
  - b. Stage –II will consist of evaluation of Financial Bids of only those parties qualified in Stage-1 as per the evaluation criteria laid down in the tender Document to select the Preferred Bidder for supply and installation of Solar panel for NUALS campus.

As part of Technical evaluation, Bidding Firms are required to submit

their general and particular experience, technical capabilities and financial standing of the Bidding Firm. Bidding Firm would be qualified based on their experience in similar infrastructure projects and financial strength as per the criteria laid down. Only the bidding firms qualified under this procedure will be evaluated for choosing the preferred bidder.

## 8. MODE OF SUBMISSION OF TENDER

The Agency/Contractor has to submit online bids through e-procurement web portal <http://etenders.kerala.gov.in> viz. Technical bid (Cover 1) and financial bid (Cover 2).

No Manual Bid will be accepted.

The technical bid (Cover 1) must be accompanied with the following documents:-

## 9. ELIGIBILITY CRITERIA

- a. The Bidder shall be registered with MNRE / ANERT (Agency for Non-Conventional Energy and Rural Technology, Govt. of Kerala)
- b. The expertise of the bidder in the field of Renewable Energy and similar works viz supply, Installation, Testing and Commissioning of Grid Interactive SPV Based Solar Power System for the office buildings/commercial premises/industrial/houses etc will be considered.
- c. The bidder should be operating in Kerala for not less than 5 years. Should have service setup at any town/city of Kerala State for rendering after sales service of the solar power plant.
- d. The bidder with public sector experience within the field's refineries, industry and government organizations will be given preference.
- e. The bidder should have successfully installed at least two grid connected solar photovoltaic power plants of minimum 50kWp capacity or one 100 KW Solar On

grid installation during the last 3 years. Copy of work order & completion certificate from the client should be submitted as a proof of execution of the work.

- f. Above works should have been done during the last 3 years ending March 2021.
- g. Annual turnover of the bidder should be at least Rs. 100 Lakhs, during the last three financial years ending on 31st March 2020. Also the bidder should be profit making for the last 3 years.
- h. Firms showing work experience certificate from Non-Government / Non-PSU Organizations should submit copy of tax deduction at source (TDS) certificate in support of their claim for having experience of stipulated value of work.

#### 10. PV Module: System Specification

- The Module Manufacture should be from **REC Solar, SunPower, Panasonic, Adani Panel.**
- The Solar PV Module should have at-least 10 year product warranty and 25 years linear power output warranty or Insurance cover.
- Maximum permissible degradation of solar modules starting from the second year in performance should not be more than 0.8% per annum.
- The rated output power of any supplied module shall have only positive tolerance.
- Panel Wattage : Unit panel watt peak should not be less than 365Wp
- Array Structure MS tubes, angles, channels etc. of various sizes can be used for mounting panels or arrays.
- Leak-proof Structure: Vendor should provide detailed design & drawings for the roof structure and roofing in the Administrative block .
- The panel should be used to constitute the roof of the Administrative block
- The design should ensure 100 % Leak proofing.

#### **Certifications:**

- The panels should also have the following ISO certifications

- IEC 61215, IEC 61730, IEC 62804(PID), IEC 62716(Ammonia), IEC 61701(Salt Mist Level 6)
- The panels should also have the following ISO certifications ISO 11925 - 2(Class E), ISO 9001: 2015, ISO 14001: 2004

**Inverter : System Specification**

- Inverter Preferred Brand: **ABB, SME, DELTA**
- Efficiency of the inverter should not be less than 97%.
- Inverter should have ground fault monitoring and Grid monitoring
- Inverter can be ground or wall mounted
- Inverter should have a minimum guaranty of 5 years
- Inverter should have transformer-less topology

**Certifications:**

- IEC 60068-2-x, IEC 61727, IEC 62109-1/2, IEC 62116

11. Cover I (“Technical”) – upload the following document in the Technical bid 10(a) to (i)

- a. E- Tender Notice duly filled and signed in all pages.
- b. General Conditions and agreement duly filled and signed in all pages.
- c. Duly Sealed and Signed Copies of all other relevant document required to prove eligibility criteria.
- d. Detailed proposed layout drawing and full equipment details.
- e. Guaranteed power generation capacity of the entire system – Minimum Performance Ratio of 75%.
- f. Technical Specification of Inverter and Panels with brand name quoted
- g. Form F-1 to F12 (along with documentary proof)
- h. PAN Number Certificate and Certificate of Incorporation of Company.
- i. Duly signed copies of GST registration

- j. Complete technical details and any special features proposed for incorporation must be given for full technical evaluation. Supporting documents for the claimed facilities/ features shall also be attached while submitting the technical bid.
- k. The bidder should have maintenance set-up at KOCHI/nearby city in Kerala State, Address & telephone / fax nos. of maintenance set-up shall be indicated.
- l. Other Certificates / Declarations as per Annexures enclosed to be submitted.

### **Cover II (Price Bid)**

- a) Bidders are requested to quote rates in the Finance cover (BOQ) only. The tender will be finalized on the rates quoted in the BOQ. Please do not quote/mention rates anywhere else in the tender other than BOQ.
  - b) Comprehensive AMC (after Warranty Period): The firm should also give their rates towards regular servicing/maintenance (for a period of five years) after the comprehensive warranty period of 5 years ,mentioning the number of visits per annum after the guarantee/warranty period in a separate sheet. During the comprehensive warranty period servicing/maintenance, replacement of defective parts etc. to be carried out free of cost.
12. Tender will be opened online at the time and dates specified in the tender “Critical Dates View” of “Work Item Details”

**REGISTRAR**