

INVITATION FOR QUOTATION

TEQIP-III/2019/ucek/Shopping/7/15442-44

07-Feb-2019

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Smart Grid and Renewable Energy Lab	1	60	ee deptt UD RTU kota	as per norms

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

Delivery and Installation - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **16:00** hours on **23-Feb-2019** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **YES**
14. Testing/Installation Clause (if any) **YES**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned in instructions.

17. We look forward to receiving your quotation and thank you for your interest in this project.




[Authorized Signatory]
Dr. S.C. JAIN
Institutional Project Director
TEQIP-III, UD, RTU, KOTA

Annexure I

Sr. No	Item Name	Specifications
1	Smart Grid and Renewable Energy Lab	<p>A. Solar Power Generator System (1 kW) (1): a. Polycrystalline Solar Panel 1 kW (static) • Cell-72 cells, 4 bus bar • Max. series fusing current ~ 15 Amps • Performance Class ~ 300 to 340Wp • Open Circuit Voltage ~ 45 VDC • Max Power Voltage ~ 35VDC • Short Circuit Current ~ 9.5 A • Max. Power Current ~ 9.5 A • Module Efficiency ~ 17 % • No. of Panels ~ 5 or 6 b. Solar Power Generator System (1 kW)(1): Polycrystalline Solar Panel 1 kW (Tracking) Single axis tracking • Linear actuator based tracking • Protection IP67, 3 Bypass Diodes B. Grid-tie Inverter (1.5kW) with solar charge controller(1): • 2kVA with DSP based Hybrid integration logic with MPPT based charge control • PV Charge Controller ~ 2kWp • Inverter Input Voltage ~ 45V • I/P Voltage range DC ~ 45V – 60V ± 2%. C. Wind Turbine system with wind charge controller 1kW (1): • Horizontal Rotation axis • Polypropylene / Carbon reinforce blade material • Rotor diameter ~ 2.5 m • Performance peak electric power ~ 1000 Wp • Average power output ~ 700 W avg. • Rated voltage - LV model 24/36/48 V DC, HV model 120/240 V DC • Rated wind speed ~ 10 m/s • Start up/ Cut in wind speed ~ 3m/s • Cut out wind speed ~ 15 m/s • 230 V AC mains Grid tie (with interface controller & Grid tie inverter). The Wind Charge Controller is well-suited for 12/24/48 V. Capacity 1000W 12/24/48V D. Battery Bank (400 AH)(1): • 12V, 100Ah Rating Quantity - 4 Nos. • Tubular technology E. DC/AC Break out Box integrated with RE monitoring</p>

		<p>B. system(1): • Input : 230V grid/virtual grid / 48V DC • Output : Wind AC (variable) • Solar DC (150-200V) • Facility of communication interface RS 485, RS 232, RF • Compatibility with CompactRIO Controller or equivalent</p> <p>F. Experimental Kits(1):</p> <ol style="list-style-type: none"> 1. Smart House Model (10 Nos.) • Operates on conventional AC power • Control switches • Automated master control using software • Measuring single phase electrical parameters • Power quality testing • Functionality – stand alone, compatible for any micro grid network formation • Communication MODBUS, RS 485 or equivalent 2. Intelligent Systems Kit (10 Nos.) • Input voltage AC - 230V, 50 Hz • On board power supply DC-5/12/24V AC-230V • Screw type Connectors for interfacing external sensors/ actuators. PCB mounting on DIN Rail with circuit casing 3. Load Analysis Kit (10 Nos.) • Different signal variants across output terminal of the device • Compatibility with data acquisition system • Electric equipment testing • Power electronic device testing • Power quality and stability analysis. Filter designing and protection circuit testing 4. Weather station • Measures the actual external weather parameters • Analysis of variation in load with climate • Set alarm for high solar radiation, temperature/humidity • Rain fall and rain rate indicator • Graphical representation of data • Wind direction detector • Wind speed detector • Status Indicator <p>1 G. Software:</p> <ol style="list-style-type: none"> 1. Smart Grid Energy Monitoring: • Acquires real-time voltage, current, instantaneous power consumption, energy consumption value of smart house 2. Solar Energy Monitoring: • Acquires solar panel voltage, current, power, energy generated 3. Wind Energy Monitoring: • Acquires real-time wind turbine output voltage, current o/p power, energy generated 4. Renewable Energy Monitoring: • Acquires the solar, wind energy generated • Graphical representation of solar, wind profile 5. Weather Monitoring: • Acquires real-time irradiation, wind speed, wind direction, temperature, humidity, pressure, rain fall <p>H. Real Time DAQ System for Smart Grid Applications (1): 32Ch ±10 V, 250 kS/s, 16-Bit AI Module Front-mount terminal block for 37-pin D-Sub Modules 250 Vrms,</p>
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		24-Bit, 50 kS/s/ch, 3-Ch, AI C Series Module 20 A, 24-Bit, 50 kS/s/ch, 3-Ch, AI C Series Module 32-Ch 24 V, 7 μ s, Sinking DI Module 32-Ch 24 V, 500 μ s, Sourcing DO Module I.Shipping Freight and Insurance
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DEAN FACULTY AFFAIRS (IPD, UD TEQIP-III, RTU KOTA)
UNIVERSITY DEPARTMENTS
RAJASTHAN TECHNICAL UNIVERSITY
RAWATBHATA ROAD, KOTA-324010 (RAJASTHAN)
(email id: teqiprtu@gmail.com)

Instructions for bidders for each procurement package under UD TEQIP-III

1. The packages are uploaded and the detail & specifications are provided for individual package as per the TEQIP-III norms.
2. The interested vendors are requested to check the website regularly for update/ modification/or any change in the terms and conditions or any other requirement.
3. Envelope containing the quotations should be properly sealed and shall bear the following details:
TEQIP-III Project, and PMSS Item code, on the front side of envelope as given:-
IB No. RTU/UD/TEQIP-III/2019
4. In the event of the specified date for submission of quotations being declared a holiday, the quotations will be received up to 5:00 P.M on the next working day.
5. Any quotations received after the deadline for submission of quotations prescribed, will not be considered.
6. No credit will be given to earlier deliveries and quotations offering delivery beyond the stipulated delivery period will be treated as non-responsive.
7. The supplier shall seal the original copy of the quotations in envelopes, duly marking the envelopes with the address as mentioned below:
DEAN FACULTY AFFAIRS (IPD, UD TEQIP-III, RTU KOTA)
UNIVERSITY DEPARTMENTS
RAJASTHAN TECHNICAL UNIVERSITY
RAWATBHATA ROAD, KOTA-324010 (RAJASTHAN)
8. Supplier must provide the contact details such as Contact Person, Complete address, Tel. No. / Mobile No. E-Mail ID, TAN No., TAX No, PAN No., GST No....etc.
9. All the taxes, levies, duties, AMC's and various overhead charges if any, shall be mentioned while submitting the offer.
10. Completion Certificates of past supplies, Warranty/ Defect Liability, Drawings, Dispute Resolution, Arbitration, Force Majeure, Historical data in relation to the tender like annual reports, turn over detail etc can be submitted with the quotations, as a supporting document.
11. The Prices Ex. RTU Kota should be quoted in Indian Rupees only.
12. Penalty for late delivery will be levied as per the RTU/TEQIP-III norms & conditions.
13. Award of contract notwithstanding the above mentioned conditions, UD TEQIP-III reserves the right to accept or reject any quotations/ package(s) to cancel the procurement packages and reject all quotations at any time prior to the award of contract.
14. Venue for Opening of quotations is Dean Faculty Affairs & Institute Project Director (IPD UD TEQIP-III), University Departments, Rajasthan Technical University, Kota – 324010,

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____