

## INVITATION FOR QUOTATION

TEQIP-III/2018/mnitj/Shopping/39

09-Feb-2018

To,

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### 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	Solar Energy Training System	1	60 days	Central Store MNIT Jaipur	Yes

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 **36** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **02:00** hours on **26-Feb-2018** .
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 below,  
Coordinator TEQIP-III Prabha Bhawan, Malaviya National Institute of Technology, J. L. N. Marg, Jaipur 302017 (Rajasthan)
17. We look forward to receiving your quotation and thank you for your interest in this project.
18. The penalty clause is as under:

- (a) Should the tender fail to deliver the goods within the period specified in the tender form, the recovery of the liquidated damage, and not by way of penalty, a sum equal to the percentage of the value of stores which the tenderer has failed to supply for period of delay will be made as stated below:

I. Delay up to one month	1%
II. Delay exceeding one month up to two month	2%
III. Delay exceeding two month up to three month	5%
IV. Delay exceeding three month.	5 % for each month and there Of subject to Maximum10%

In case the supplier is unable to supply the material within the specified period due to unavoidable circumstances/ justified reasons, he should apply to the Director of the Institute well in time before expiry of the specified date for extension of the time with the request to waive the liquidated damage charges which is at the discretion of the Director, MNIT, Jaipur.

- (b) In case of failure to supply the goods within the prescribed time and in accordance with the specifications given in the quotations, the Institute shall be free to cancel the order and make purchase from the next higher tenderer /from the open market as the case may be.

In that case the loss sustained by the Institute shall be recovered from the defaulting supplier. The Institute will be at liberty to recover the loss from the permanent earnest money and /or any other pending. Claims of the supplier without prejudice to its general rights to effect recovery from the supplier.

(Authorized Signatory)  
Name & Designation

## Annexure I

Sr. No	Item Name	Specifications
1	Solar Energy Training System	<p>Component list</p> <p>Hybrid solar Inverter, Grid Tie Solar Inverter, Off-Grid Solar Inverter, MPPT Solar Charge Controller, SUPERCAPACITORS / ULTRA CAPACITORS SPECIFICATIONS, Solar Battery (5 numbers), 40 watt silicon solar panel (20 numbers), Smart energy meter (5 numbers), Load analysing kit (2 numbers), Data logger (3 numbers)</p> <p><b><u>Detailed Specification</u></b></p> <p><b>1. Hybrid solar Inverter</b></p> <p>Wave Type Pure Sine Wave</p> <p>Rated Capacity 1500 VA</p> <p>Voltage Window (eco mode): 100 V – 290V</p> <p>Voltage window (UPS mode) 180V – 260 V</p> <p>Full Battery Recharge Time 5-10 Hrs</p> <p>Charge Controller Rating 40 Amp/ 24V</p> <p>DC Load Output 12 V / 5 Amp</p> <p>Number of input: 4 or More</p> <p>Protection</p> <p>Overload, deep discharge, short-circuit, Battery low cut off</p> <p>MPPT efficiency: 99 %.</p> <p>Warranty on site: 3 or More Years</p> <p><b>2. Grid Tie Solar Inverter</b></p> <p>Rated Capacity 1500 VA</p> <ul style="list-style-type: none"> <li>• Maximum DC Input power: 1600W.</li> <li>• Maximum DC input voltage: 500V DC.</li> <li>• Maximum AC output power: 1500W.</li> <li>• Rated output voltage: 220/230/240 V AC.</li> <li>• Output voltage range: 184 to 264V.</li> <li>• Maximum output current: 11A</li> <li>• MPPT efficiency: 99%.</li> <li>• AC Connection: Single-phase.</li> <li>• Number of input: 4 or more.</li> <li>• Rated output current: 6.8 A.</li> <li>• Current Harmonic Distortion: &lt;3%</li> </ul> <p>Warranty on site: 3 or More Years</p>

### 3. Off-Grid Solar Inverter

Single Phase Power Rating 2 KVA

Peak Efficiency (%)

>85%

Max. Output Voltage 230V  $\pm$  2%

Output Frequency (Hz) 50Hz  $\pm$  1%

Voltage 48 V

Wave Type Pure Sine Wave

Full Battery Recharge Time 5-10 Hrs

Charge Controller Rating 40 Amp/ 24V

DC Load Output 12 V / 5 Amp

Number of input: 4 or More

Protection

Overload, deep discharge, short-circuit, Battery low cut off

MPPT efficiency: 99 %.

Warranty on site: 3 or More Years

### 4. MPPT Solar Charge Controller

Maximum voltage:48Volt. Maximum current:50Amp

efficiency: 99 %.

Number of input: 4 or More

Warranty on site: 3 or More Years

### 5. SUPERCAPACITORS / ULTRA CAPACITORS SPECIFICATIONS (MODULES):

a. Ratings: 16.2V/500F

Specs:

Test Current for Capacitance and ESRDC 100 A

Rated Voltage 16 V

Absolute Maximum Voltage 17 V

Absolute Maximum Current 1,900 A

Leakage Current at 25°C, maximum 5.2 mA

Maximum Series Voltage 750 V

Capacitance of Individual Cells1 3,000 F

Maximum Stored Energy, Individual Cell 3.0 Wh

Number of Cells 6

b. Ratings: 160V/5.8F

Specs:

Test Current for Capacitance and ESRDC 35 A

Rated Voltage 160 V

Absolute Maximum Voltage	170 V
Absolute Maximum Current	170 V
Leakage Current at 25°C, maximum	25m A
Maximum Series Voltage	750 V
Capacitance of Individual Cells <sup>1</sup>	350 F
Maximum Stored Energy, Individual Cell	0.36 Wh
Number of Cells	60

**6. Solar Battery (5 numbers)**

12V/150Ah each with 3 Years or more onsite replacement warranty

**7. silicon solar panel (20 numbers)**

with each 40-watt crystalline silicon solar panel

**8. Smart energy meter (5 numbers)**

Fully featured IEC standard, Certified to IEC 62052-11, 62053-11, Class 1, for active energy

Measures positive and reverse active energy, RMS voltage, RMS current, power factor

TOU with 4 tariffs and 8 customer billing cycles

Measures Demand Response every 15 minutes or any settable time

Two step tariffs can be activated over a designated time (upon time or consumption)

Integrated Load Switch (80A), operation as credit or pre-payment modes

Load disconnection when configurable power thresholds are exceeded

Automatic, periodic register meter reading: interval, hour, daily and monthly freeze

Event log with circular memory buffer

Anti-tamper functions (terminal cover, case open detection and neutral line current measurement).

Warranty on site: 3 or More Years

**9. Load analysing kit (2 numbers)**

0-10V DC 220V AC/DC Analysis (On Board)

Warranty on site: 3 or More Years

**10. Data logger (3 numbers)**

Temperature: NTC internal and external optional

Measuring range: -30°C to +70°C (-40°C to +90°C with ext. Sensor)

Accuracy: ±0.5°C (at -20°C to + 40°C)

Resolution: 0.1°C

Response time T90: 11 min. (30 sec. with ext. Sensor)

Data storage: 32,000 values

Interval: 10 Sec. up to 24 hours

	<p>Alarm settings: adjustable up to 5 alarm limits</p> <p>Alarm type: Single alarm or cumulative</p> <p>Battery: CR2032 / replaceable by customer</p> <p>Dimensions: 79 mm x 33 mm x 14 mm (L x W x D)</p> <p>Weight: 25 g</p> <p>Protection class: IP67</p> <p>System Requirements: PDF Reader</p> <p>Certification: 12830, calibration certificate, CE, RoHS</p> <p>Software: Temp Base Lite 1.0 software / free download</p> <p>RH (Humidity)</p> <p>Temperature Range -30degC`70degC, -40degC~85degC (No dis</p> <p>Dimension 86.2 x 64.2 x 25.4mm</p> <p>Type Digital</p> <p>Pressure</p> <p>Reliable performance • Fine quality • Long life Specifications: • Pressure Range: 500 PSI • Time Accuracy: ± 100 ppm @ 75°F • Pressure Resolution: 0.15 PSI • Sample Point Capacity: 10,750 points for Pressure &amp; Temp. 21,500 points for Pressure OR Temperature • Sampling Rate: 1 second to 18 hours • Temp. Range (External Sensor): -40°C to 65°C • Accuracy: ±0.5 °C • Resolution:0.05 °C • Storage Temp.: -40°C to 77 °C</p> <p>Warranty on site: 3 or More Year</p>
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**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)
<b>Total Cost</b>							

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: \_\_\_\_\_

# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

TEQIP Phase-III

Date: 09.01.2018

The bidders submitting quotations for the supply of items under TEQIP Phase-II must ensure the furnishing of following terms/conditions as specified in the bid invitation:

1. Delivery terms
2. Payment terms
3. Training (wherever specified)
4. Testing /Installation/ commissioning of equipment
5. Quantity as specified
6. Place of delivery
7. Point wise technical specification as specified in the invitation letter
8. Brochure of the quoted model
9. List of the users of the quoted model with complete contact details
10. Successful bidders kindly Provide Performance security @ 10% of the equipment cost, valid for  
1Year + 2 months
11. Penalty terms

Any other important point requested in the bid invitation letter