

INVITATION FOR QUOTATION

TEQIP-III/2017/gbec/Shopping/1

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	Renewable Energy Lab equipmentsr	3	45	The Director, GBPEC Ghurdauri Pauri(Uttarakhand)	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 **40** 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 - 80% of total cost

Satisfactory Acceptance - 20% 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 **15:00** hours on **15-Dec-2017** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **Yes. After Installation , testing and training has to be provided to the faculty staff and students.**

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,The Director
Govind Ballabh Pant Engineering College Ghurdauri, Pauri Garhwal, Uttarakhand,246194.

**17. The manufacturer /Authorized dealer should submit three recent purchase order
alongwith satisfactory work completion certificate for similar types of items supplied to
other engineering college.**

**18. All manufacture/authorized dealer need to mention the make and model no. for the item
quoted and if authorized dealer, he has to submit the recent valid authorization
certificate from the original manufacturer.**

**19. The manufacturer/ Authorized dealer has to provided three years warranty and free
service /maintenance if required at the college site.**

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

Technical Specification of Solar PV Emulator

S. N	Name of Equipment	Name of sub equipments	Technical Specification
		Input	
1	Solar PV Emulator	No. of channels	4
		Supply voltage	230V/50Hz
		Output	
		Short circuit current	0-10A
		Open circuit voltage	0-50VDC
		Maximum output power	400W
		Maximum channels in series	4
		Maximum output DC voltage	200VDC

Technical Specification of Fuel Cell

S. N	Parameters	Technical Specification
1	Type of fuel cell	PEM
2	No. of fuel cells	48
3	Rated power	1000W
4	Performance	30 V@35A
5	H2 supply valve voltage	12V
6	Purging valve voltage	12V
7	Blower voltage	12V
8	Reactant	Hydrogen and Air
9	External temperature	5-30 ⁰ C
10	Maximum Stack temperature	65 ⁰ C
11	H2 Pressure	0.45-0.55 Bar
12	Hydrogen purity	>=99.995% dry
13	Humidification	Self-humidified
14	Cooling	Air and integrated fan type
15	Stack weight	6 Kg (±300gm)
16	Dimension	22cm×27cm×12.5cm
17	Flow rate at maximum output	13 L/m
18	Start up time	<=30 Seconds
19	Stack efficiency	40% @ 30 V
20	Low voltage shutdown	24V
21	Over current shutdown	42A
22	Over temperature shut down	65 ⁰ C
23	Hydrogen cylinder	30 filled at 140 bar pressure
24	Pressure regulator	Inlet: 0-250 Kg/m ³ Outlet: 0-4 Kg/m ³
25	Pressure gauge with adaptor	0-4 Kg/m ³
26	Rota meter	20 LPM
27	SMPS	13V, 8A
28	Hydrogen leak detector	Alarm at 10% level Warm up time: 2 min. Response time: 2 sec.

29	Charge Controller	Max. load current: 40A Max. Input voltage: 50V Output voltage: 24V
30	Inverter	System Input Voltage: 24V Output: 220V, 50 Hz, Sine wave Power: 1200VA
31	Battery bank	System voltage: 24V Capacity: 42AH

Technical Specification of Wind Turbine Emulator

S. N	Name of Equipment	Name of sub equipments	Technical Specification
1	Prime-mover	D. C Motor	5 HP
		DC Drive (With appropriate static control including transformer, rectifier etc.)	300V, 10A, armature controlled
2	Generating Unit	SEIG (squirrel cage, 3-phase) with appropriate excitation and static control devices such as bi-directional converter, power control converter etc.	1.5 kW, 415V, 50 Hz, 8 poles
		Battery bank	12V, 150AH
		Inverter (including appropriate LC filter)	3-phase, 1000VA, 50 Hz
		Transformer (delta-star)	1000VA
3	Control and measurement unit	Processing unit (with ADC input, PWM outputs, LAN connections, required software, appropriate Sensors and meters etc.)	FPGA

Annexure-2

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)	GST (CGST/ SGST/IGST) and other taxes payable(if any)	
						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: _____