

## INVITATION FOR QUOTATION

TEQIP-II/2017/iies/Shopping/4

27-Oct-2017

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	CASCADE WIND TUNNEL WITH COMPRESSOR AND TURBINE BLADE	1	40	Department Of Aerospace Engineering & Applied Mechanics, IEST Shibpur	Installation and testing required

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 - 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 **12:00** hours on **24-Nov-2017** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Training required**
14. Testing/Installation Clause (if any) **Installation and testing required**
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,  
 Nodal Officer - Procurement, TEQIP-III, IEST Shibpur,  
 P.O: Botanic Garden Dist: Howrah West Bengal 711103
17. We look forward to receiving your quotation and thank you for your interest in this project.

**Ankita Pramanik**

**Nodal Officer - Procurement, TEQIP-III**

**Annexure I**

<b>Sr. No</b>	<b>Item Name</b>	<b>Specifications</b>
1	CASCADE WIND TUNNEL WITH COMPRESSOR AND TURBINE BLADE	<p><b>Detailed Technical Specification:</b></p> <ul style="list-style-type: none"> <li>• Rectangular cross section of 120mm × 400mm.</li> <li>• Blower maximum capacity of 7m<sup>3</sup>/sec pressure rise of 16 Kpa</li> <li>• Models: compressors / turbine blade used for test. Each cascade may contain 3 to 5 blades</li> <li>• Reynolds number should be varied from maximum of <math>6 \times 10^5</math> to <math>5 \times 10^4</math> on chord length of 120mm.</li> <li>• Two dimensional flow conditions are obtained by removal of side wall boundary layers using a suction system be</li> </ul>

		<p>independent of the main air supply.</p> <ul style="list-style-type: none"> <li>• The blade mounted in the centre of the cascade tunnel will be equipped with pressure tapings.</li> <li>• Flow measurements upstream and downstream of a cascade are made using Pitot tube</li> <li>• Level of turbulence maximum 5%</li> <li>• Mach number range should be approximately 0.1 to 0.4</li> <li>• Material of construction – wood</li> <li>• Cambered Aerofoil</li> <li>• Angle of attack mechanism by manual method 30° to 60°</li> <li>• Blower 30m/sec with control</li> <li>• Filter chamber mesh 400μ</li> <li>• Channel width 240 mm</li> <li>• Centrifugal blower of 7.5 HP (3 phase) with starter</li> </ul> <p><b>EXPERIMENTS CAPABILITIES</b></p> <ul style="list-style-type: none"> <li>• To find out the Efficiency of compressor/ turbine blade in turn table, different angle &amp; different (velocity) conditions</li> <li>• To find out the Pressure profile of compressor/ turbine blade in turn table, different angle &amp; different (velocity) conditions</li> </ul> <p>To find out the Performance of the equipment with compressor/ turbine blade in turn table, different angle &amp; different (velocity) conditions</p>
--	--	---

**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 GST, 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.

**\*\*Please note that the institute is exempted from customs and excise duties.**

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: \_\_\_\_\_