

INVITATION FOR QUOTATION

TEQIP-II/2012/WB2G02/Shopping/28

21-Aug-2012

To,

Sub: Invitation for Quotations for supply of Goods

Package Code: TEQIP-II/WB/WB2G02/29

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	Environment Chamber for Sensor Calibration	1	20	Electrical Engg.	Yes

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to **US\$ 300 Million** towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase II** 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 total price.

3.4 **Applicable taxes shall be quoted separately for all items. Please note that the Excise exemption & Customs concession is applicable to Jadavpur University.**

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. **Validity of quotation:** Quotation shall remain valid for a period not less than **45** 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.

- Quotations will be compared on the basis of quoted price for goods at its final destination.
- Past performance & experience may be furnished to consider the credential of the bidder

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:
100% of the total cost immediately after delivery, Satisfactory installation along with demonstration and testing of the goods and also acceptance by the department.
10. All supplied items are under normal commercial warranty/ guarantee of not less than **12** months from the date of successful acceptance of items.
11. Rate of AMC may be furnished separately, which will be applicable at the end of the normal commercial warrant period.
12. You are requested to provide your offer latest by **15:30** hours on **05-09-2012**. Bids will be opened on the same day at 16:00 hours.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Demonstration at the time of Installation**
15. Testing/Installation Clause (if any) **Satisfactory Installation & Testing is required**
16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
17. Sealed quotation to be submitted/ delivered, **within 15:30 hours of 05-09-2012**, at the address mentioned below,
TEQIP CELL, 2nd Floor, Aurobindo Bhavan, Jadavpur University, 188, Raja S. C. Mallick Road, Kolkata- 700 032.
18. We look forward to receiving your quotation and thank you for your interest in this project.

Dr. Gupinath Bhandari
Nodal Officer, Procurement
TEQIP, Phase-II

Annexure I

Package Code: TEQIP-II/WB/WB2G02/29

Sr. No	Item Name	Specifications
	Environment Chamber for Sensor Calibration	<p>The environment chamber for sensor test and calibration consists of two separate and independent units.</p> <p>One unit is considered for creating an environment with controlled temperature and will be used for calibration of temperature sensors. There should also be a provision for varying the relative humidity of this space.</p> <p>The other unit should serve as a pressurized unit, with provision for varying the pressure as well as temperature, and will be used for testing and calibrating pressure sensors. This unit must be equipped with the facility for creating a negative pressure environment in future.</p> <p>The interiors of both units should be fabricated with good quality stainless steel sheet, and each of them must consist of two numbers of stainless steel mesh racks. Each of the units must also contain at least eight numbers feed through holes, for introducing electrical probes from outside. None of these eight feed through holes should be used for the sensors to be provided by the manufacturer/supplier. The outer walls of both units should be fabricated from good quality mild steel sheet, angles etc. Each of the two units should be mounted on four castor wheels for necessary movement in the laboratory.</p> <p>The outside size of unit-1 is 45 cm X 45 cm X 45 cm (minimum) and the inside size of the each unit is 30 cm X 30 cm X 30 cm (minimum).</p> <p>The inner space of unit-1 should be insulated by good quality thermal insulating material.</p> <p>➤ The unit-1 should comprise of electrical heaters, blower-fan, necessary water tank, small monoblock water pump and necessary electrical control devices and measuring instruments. This unit must also be integrated with appropriate system to cool the inside space.</p> <p>The lower limit of the temperature control range of both units should not be greater than 20 degree Celsius. The upper limit of the temperature control range of both units should not be less than 100 degree Celsius.</p>

The relative humidity (RH) control range of the unit-1 is 60% to 99%. The pressure control range of unit-2 is from 1 bar to 8 bar.

The sensors required for unit-1 are:

- ◆ Capacitive sensor for RH measurement.
- ◆ Thermocouple /RTD for measuring the temperature of inside space of unit-1.

0-5V and 4-20mA output signal from each sensor should be accessible to the user from outside.

The controller required for unit-1 :

- ◆ One temperature set-point controller with 3 ½ digit display for displaying the set temperature and the unit temperature, and 0-5V and 4-20mA controlled output signal accessible to the user from outside.
- ◆ One PID controller with 3 ½ digit display for displaying the set temperature, and the unit temperature, and 0-5V and 4-20mA output signal accessible to the user from outside.

The final control element required for unit-1 is :

- ◆ Phase-controlled single-phase thyristorised drive electrical power controller for electrical heater with 1kW power rating (minimum) for heating the unit-1.
- The unit-2 has to be integrated with a good quality oil free compressor and an associated tank with capacity of 45 litres (minimum) and maximum pressure of at least 8 bar. The compressor must be run by a single phase ac motor with 230V, 50 Hz and 1HP rating. There must be provision for heating control also for the unit-2 similar to that used for unit-1.

The sensors required for unit -2 are :

- ◆ Thermocouple /RTD for measuring the temperature of inside space of unit-2.
- ◆ Appropriate pressure sensors with indicator and electrical voltage

and current signals available to the user from outside.

0-5V and 4-20mA output signal from each sensor should be accessible to the user from outside.

The controller required for unit -2 :

- ◆ One PID controller with set temperature display, measured temperature display and 0-5V and 4-20mA output signal accessible to the user from outside.

The final heating control element required for unit-2 is:

Phase-controlled single-phase thyristorised drive electrical power controller for electrical heater with 1kW power rating (minimum) for heating the unit-2.

The indicators required are :

- ◆ One RH indicator (digital 3 ½ digit) for unit-1.
- ◆ Two temperature indicators (digital 3 ½ digit), one for unit-1 and another for unit-2
- ◆ Pressure indicator (digital 3 ½ digit) for unit-2

NB:-It must be noted that all sensors, actuators manufactured by standard companies must comply with test and calibration and guarantee certificates from appropriate authority.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Package Code: TEQIP-II/WB/WB2G02/29

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: _____