

## INVITATION FOR QUOTATION

TEQIP-III/2018/gcej/Shopping/7

24-Jan-2018

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	AC SERVOMOTOR STUDY TRAINER	7	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	YES
2	Compensation Trainer Kit	7	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	YES
3	Kit for verification of laws & network theorems in DC Ckts.	5	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	YES
4	PID temperature Controller Trainer	7	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	YES
5	Speed control of DC Motor	5	30	ELECTRICAL ENGG. DEPARTMENT CHAK	YES

				BHALWAL, JAMMU	
6	STEPPER MOTOR STUDY TRAINER	5	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	YES
7	Syncro transmitter receiver unit	7	30	ELECTRICAL ENGG. DEPARTMENT CHAK BHALWAL, JAMMU	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 **24** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **17:00** hours on **08-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,  
chak bhalwal, jammu
17. We look forward to receiving your quotation and thank you for your interest in this project.

Sd/-

Principal

GCET Jammu

### Annexure I

Sr. No	Item Name	Specifications
1	AC SERVOMOTOR STUDY TRAINER	2-phase a.c. servomotor – 12V/50Hz per phase. Small generator for loading. 4-digit speed display. 3-digit time constant display. 3 ½ digit r.m.s. voltmeter. 3 ½ digit d.c. panel meter. List of Experiments Inertia and function parameter. Time Constant. Transfer function. Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating instructions.
2	Compensation Trainer Kit	Simulated 'uncompensated' system having adjustable damping. Peck percent overshoot $M_p$ , variable from 20% to 50%, and steady state error variable from 50% to 0.5%. Compensation network implementation through built-in variable gain amplifier. Gain is adjustable from 1 to 11. Built-in square and sine wave generators for transient and frequency response studies. Frequency adjustable from 25Hz to 800Hz (approx) List of Experiments 1 Lag/Lead compensation in the frequency ldomain. 2 lag/Lead compensation in the s-plane Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating instructions.
3	Kit for verification of laws & network theorems in DC Ckts.	Kit must be capable of verifying following laws: KCL/KVL, super position theorems/ max. Power transfer theorems/ Thevenin's theorem /Norton's theorem. Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating

		instructions.
4	PID temperature Controller Trainer	Temperature controller with facilities for P, I D and relay control blocks. Operating temp. Ambient to 90 C. Separate controls for P, I, D channel gains. Two settings for relay hysteresis. Fast 25W oven fitted with IC temperature sensor. Digital display of set and measured temperature on 3 ½ digit built-in DVM. Buttered output for recorder. IC regulation in controlled circuit power supplies. List of Experiments 1 Identification of the oven parameters. 2 Study of ON-OFF temperature control I (with adjustable relay characteristics). 3 Study of P, PI, PD and PID controls having adjustable coefficients. Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating instructions.
5	Speed control of DC Motor	Features  Speed control of a 12V, 4W permanent I magnet D.C. Motor Speed range: 0 to 3000 rpm (typical) Opto-interrupter based speed sensing. 4-digit speed display in rpm. Electronic tachogenerator for feedback. Separate unit for motor in a see-through cabinet. Smooth, non-contact eddy current brake for loading. Built-in 3 ½ digit DVM for signal measurements. List of Experiments Effect of loading on the speed of motor I in the open loop. Steady state error variable with forward gain System time constant variable with forward gain. Effect of forward gain on disturbance rejection. Determination of the motor transfer function and tachometer characteristics. Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detaile
6	STEPPER MOTOR STUDY TRAINER	Signal stepping and free running modes of operating with speed variation and direction reversal – internal TTLcircuit. O 360 motion Servo-Potentiometer position-pickup for motor dynamics. Operation through microprocessor kitsample control programs provided. Stepper motor specification Torque : 3 Kg-

		<p>cm. O Step angle : 1.8 . Power : 12V, 1A/ phase 6 Programming the microprocessor kit to implement feature like direction, speed, angle of rotation, number of steps or an arbitrary motion.</p> <p>7 Study of the effect of inertial and frictional loading on the dynamic performance. Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating instructions.</p>
7	<p>Syncro transmitter receiver unit</p>	<p>This set up is designed to demonstrate the working of a synchro ( torque) transmitter with the help of a synchro receiver. The input angular displacement displayed on anodized dial. The output angular displacement displayed on anodized dial. Two rotor terminals (R1 &amp; R2) three stator terminals (S1, S2 and S3) are brought out on the front panel. Built-in balanced demodulator circuit   Panel meter for ac/dc voltages Other requirements: Adequate number patch cords/connecting leads, Good quality, reliable terminal/sockets required at appropriate places on panel for connection/observations of wave forms, Strongly supported by lab manual/diagrammatic representation, detailed operating instructions.</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 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: \_\_\_\_\_