

INVITATION FOR QUOTATION

TEQIP-II/2015/GJ1G02/Shopping/M-EE-09

02-Dec-2015

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	A Trainer Kit for Two Phase AC Servomotors	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
2	A Trainer Kit for DC Servomotors	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
3	A Synchro Transmitter and Receiver Pair to Demonstrate Synchro Operations	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
4	A Demonstration Kit to study the Compensation in Control Systems	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
5	A Demonstration Kit for DC motor Position Control System	1	21	BVM Engineering College, Vallabh Vidyanagar,	Free at the time of delivery at our site

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				Gujarat-388120	
6	Speed Control Demonstration Kit	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
7	A Demonstration Kit for Temperature Control System	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
8	A Demonstrator kit for Light Intensity Control	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
9	Active power (kW) & reactive power (kVAR) transducer (1 phase)	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
10	Active power (kW) & reactive power (kVAR) transducer (3 phase – 4 wire-balanced & unbalanced load)	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
11	AC voltage transducer	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
12	AC current transducer	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
13	Power factor transducer	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site

14	Phase Angle Transducer	1	21	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
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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 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 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 with free replacement at our site.

11. You are requested to provide your offer latest by **15:00** hours on **21-Dec-2015**.

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

13. Training Clause (if any) **Free Training at the time of Installation at our site**

14. Testing/Installation Clause (if any) **Free Installation at the time of delivery at our site**

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,

BVM Engineering College, Vallabh Vidyanagar, Dist: Anand , Gujarat- 388120

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

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	A Trainer Kit for Two Phase AC Servomotors	<ul style="list-style-type: none">• 2-phase AC servomotor - 12V/ 50Hz per phase(rated speed 1500 rpm)• DC Generator(12V, 8W) Coupled with AC Servomotor for loading• 4-digit speed display

		<ul style="list-style-type: none"> • 3-digit time constant display • 3½ digit r.m.s. voltmeter • 3½ digit DC panel meter • Voltage regulated internal supplies • Detailed literature with sample results
2	A Trainer Kit for DC Servomotors	<ul style="list-style-type: none"> • 12V, 8W DC Servomotor(rated speed 1500 rpm) • DC Generator(12V, 8W) Coupled with DC Servomotor for speed pick up and loading • 4-digit speed display • 3-digit time constant display • 3½ digit voltmeter and current meter for DC measurement • IC regulated power supply • 220V±50Hz mains operation • Supporting literature with experiment details.
3	A Synchro Transmitter and Receiver Pair to Demonstrate Synchro Operations	<ul style="list-style-type: none"> • Kit Working voltage: (220-240)V AC • Input Voltage: 50V AC • Input Frequency: 50Hz • Output Voltage: 0 to 50V AC • Output Current: 1Amp
4	A Demonstration Kit to study the Compensation in Control Systems	<ul style="list-style-type: none"> • Simulated ‘uncompensated’ system having adjustable damping. Peak percent overshoot M, variable from 20% to 50%, and steady state error variables 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 – 800Hz (approx.)
5	A Demonstration Kit for DC motor Position Control System	<ul style="list-style-type: none"> • Position control of a 12V, 1A DC gear motor (50 rpm) • Provision for positive and negative tacho- generator feedback • Tacho constant: 2V/1000 rpm approximately. • Calibrated dials for reference and output position: resolution 1° • Micro Processor based waveform capture card • Literature and patch cords included • Built-in 3½ digit DVM for signal measurements • Built-in step signal and IC regulated power supplies for electronic circuits • Servo-potentiometers with full 360° rotation • Separate unit for motor in a see-through cabinet
6	Speed Control Demonstration Kit	<ul style="list-style-type: none"> • Speed control of a 12V, 4W permanent magnet DC motor • Speed range: 0 to 3000 rpm (typical) • Opto-interrupter based speed sensing • 4-digit speed display in rpm

		<ul style="list-style-type: none"> • Electronic tacho-generator for feedback • Separate unit for motor in a see-through cabinet • Smooth, non-contact eddy current brake for loading • Built-in 3½ digit DVM for signal measurements • Built-in IC regulated internal power supply • Supporting literature and patch cords included
7	A Demonstration Kit for Temperature Control System	<ul style="list-style-type: none"> • Temperature controller with facilities for P, I, D and relay control blocks • Operating temperature: 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 a 3½ digit built-in DVM • Buffered output for recorder • IC regulation in controller circuit power supplies • Supporting literature and patch cords included
8	A Demonstrator kit for Light Intensity Control	<ul style="list-style-type: none"> • Built-in 3½ digit DVM • Built-in IC regulated power supplies • Literature and patch cords included • Seven lamps 6V/300mA, • 5Hz square wave and triangular wave for dynamic response study •
9	Active power (WATT) & Reactive power (VAR) transducer (1 phase)	<ul style="list-style-type: none"> • AC input • Voltage: 230 Volt, 50Hz • Current: 5 Amp • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: ± 0.5% of span • Auxiliary • 230 Volt AC ± 20%, 50Hz • Operating Manual
10	Active power (WATT) & Reactive power (VAR) transducer (3 phase – 4 wire)	<ul style="list-style-type: none"> • AC input • Voltage: 440 Volt, 50Hz, 3-phase- 4 wire • Current: 5 Amp • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: ± 0.5% of span • Auxiliary • 230 Volt AC ± 20%, 50 Hz • Operating Manual
11	AC voltage transducer	<ul style="list-style-type: none"> • AC input • Voltage: 440 Volt, 50Hz, 3-phase- 4 wire

		<ul style="list-style-type: none"> • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: $\pm 0.5\%$ of span • Auxiliary • 230 Volt AC $\pm 20\%$, 50 Hz • Operating Manual
12	AC current transducer	<ul style="list-style-type: none"> • AC input • Current: 0- 5 Amp (CTR), 50Hz • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: $\pm 0.5\%$ of span • Auxiliary • 230 Volt AC $\pm 20\%$, 50Hz • Operating Manual
13	Power factor transducer (Leading & Lagging both)	<ul style="list-style-type: none"> • AC input • Voltage: 440 Volt, 50Hz • Current: 5 Amp • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: $\pm 0.5\%$ of span • Auxiliary • 230 Volt AC $\pm 20\%$, 50Hz • Operating Manual
14	Phase Angle Transducer (Leading & Lagging both)	<ul style="list-style-type: none"> • AC input • Voltage: 440 Volt, 50Hz, 3 phase-4 wire • Current: 5 Amp • DC output • Voltage: 0-5 / 0-10 (any one only) • Current (mA): 0-5 / 0-10 • Accuracy • Standard: $\pm 0.5\%$ of span • Auxiliary • 230 Volt AC $\pm 20\%$, 50Hz • Operating Manual

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)
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: _____