



Institute of Engineering & Technology, Lucknow, Sitapur Road, Lucknow,
Uttar Pradesh - 226021

INVITATION LETTER

Package Code: TEQIP-III/2019/UP/ietl/276

Package Name: IET-TEQIP-ECD-LAB-3

IET/TEQIP-III/2019-229C

Current Date: 05-Jul-2019

Method: Shopping Goods

Sub: INVITATION LETTER FOR IET-TEQIP-ECD-LAB-3

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	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	I-MOB – 8501 LED MICROPROCESSOR TRAINER KIT	2	Institute of Engineering and Technology, Lucknow	
2	I-MOB – 8609 LCD MICROPROCESSOR TRAINER KIT	2	Institute of Engineering and Technology, Lucknow	
3	I-MOB-31 8031/51 MICROCONTROLLER TRAINER KIT	2	Institute of Engineering and Technology, Lucknow	
4	INTERFACE MODULE	2	Institute of Engineering and Technology, Lucknow	
5	ADVANCED 8085 MICROPROCESSOR TRAINER	2	Institute of Engineering and Technology, Lucknow	
6	ADVANCED 8086 MICROPROCESSOR TRAINER	2	Institute of Engineering and Technology, Lucknow	
7	Interface 1	2	Institute of Engineering and Technology, Lucknow	
8	Interface 2	2	Institute of Engineering	

			and Technology, Lucknow	
9	Interface 3	2	Institute of Engineering and Technology, Lucknow	
10	Interface 4	1	Institute of Engineering and Technology, Lucknow	
11	Interface 5	2	Institute of Engineering and Technology, Lucknow	
12	Interface 6	2	Institute of Engineering and Technology, Lucknow	

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, initialling, 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 60days 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:

Satisfactory Delivery & Installation and Acceptance - 100% of total cost
10. Liquidated Damages will be applied as per the below:

Liquidated Damages Per Day Min % : 0.50

Liquidated Damages Max % : 10
11. All supplied items are under warranty of 36 months from the date of successful acceptance of items and AMC/Others is .
12. You are requested to provide your offer latest by 14:00 hours on 22-Jul-2019.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) YES
15. Testing/Installation Clause (if any) YES
16. Performance Security shall be applicable: 5%
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **TEQIP-III Institute of Engineering & Technology, Lucknow, Sitapur Road, Lucknow, Uttar Pradesh - 226021**
19. We look forward to receiving your quotation and thank you for your interest in this project.


 (Authorized Signatory)
 Name & Designation
COORDINATOR
TEQIP PHASE-III
Institute of Engineering & Technology, Lucknow-21

Annexure I

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Sr. No	Item Name	Specifications
1	I-MOB – 8501 LED MICROPROCESSOR TRAINER KIT	Based on 8085 CPU operating at 6.144 MHz crystal frequency. 8K bytes of EPROM loaded with powerful monitor program. 8K bytes of RAM available to the user. Total on board memory expansion upto 64K bytes using 2732/2764/27128/6264/ 62256 with 1 socket of 28 pin. Memory mapping definable by the user. 16 bit programmable TIMER/COUNTER using 8253. 24 programmable I/O lines provided through 8255. RS-232C interface through SID/SOD Lines with Auto baud rate. Two modes of commands: Hex Key pad mode USB Interface to connect kit to computer. V-USB Terminal Software to operate kit from USB Port to execute all commands like Examine Memory, Execute, Assembler, Disassembler & etc. No components provided on board, only circuit diagram printed on board. All address, data & control lines are buffered and made available at the edge connector as per STD bus configuration. 25/28 key hexadecimal keyboard and six seven segment displays through 8279. Powerful software commands like Relocate, String, Fill, Insert, Delete, Block Move, Examine/Compare Memory, Examine Register, Insert Data, Delete Data, Single Step, GO, Break Point in both Serial & Keyboard mode. Facility for Downloading/Uploading files from/to PC. In-built Power supply. User's Manual.
2	I-MOB – 8609 LCD MICROPROCESSOR TRAINER KIT	Based on 8086/8088 Microprocessor. Onboard assembler & disassembler. 16K Bytes of EPROM Loaded with monitor expandable to 256K Bytes using 27256 with commands like Assemble, Display or Modify Data, Unassemble, Trace, Go. 16K bytes of CMOS RAM expandable to 128K Bytes using 6264/62256. 72 I/O lines using three nos. of 8255. 8 different level interrupt through 8259. Three 16 bit Timer/Counter through 8253. 104/105 Keys IBM PC Compatible ASCII Keyboard. 20x2 Liquid Crystal Display. RS-232C Port using 8251. USB Interface to connect kit to computer. V-USB Terminal Software to operate kit from USB Port to execute all commands like Examine Memory, Execute, Assembler, Disassembler & etc. No components provided on board, only circuit diagram printed on board. All address, data and control signals (TTL Compatible) available at edge connector as per Multi Bus. The kit also has its own Resident Bus. In-built Power Supply. User's Manual.
3	I-MOB-31 8031/51 MICROCONTROLLER TRAINER KIT	Based on 8031/8051 operating at 10/12 MHz. On board 8K RAM. Battery backup for RAM area. 8/16K bytes of EPROM with powerful monitor program. Total memory expandable upto 128K Bytes using four 28 pin sockets. 48 I/O lines using 2 nos. of 8255. Two External interrupts INT0 & INT1. 28 keys Hexadecimal Keyboard and six Seven Segment displays. USB Interface to connect kit to computer. V-USB Terminal Software to operate kit from USB Port to execute all commands like Examine Memory, Execute, Assembler, Disassembler & etc. No components provided on board, only circuit diagram printed on board. RS-232C interface using 8251. Auxiliary RS-232C using serial pins of 80C31. All data, address and control signals (TTL compatible) available at FRC connector. Software commands like INSERT, DELETE, BLOCK MOVE, SET/CLEAR BREAK POINT, SINGLE STEP, EXAMINE THROUGH REGISTER, EXECUTE, EXAMINE, MODIFY, PROGRAM/DATA/INTERNAL MEMORY etc. Uploading/Downloading facility from PC in Intel Hex format. In-built Power Supply. User's Manual.
4	INTERFACE MODULE	Interface Module -(ALL IN ONE). Burge strip F-F connectors, ADC & DAC interface module. Stepper motor interface DC Voltage & current Measurement

		interface module Traffic Control interface module. 4X4 Keyboard matrix.89S51 programmer with USB Programming facility .Required Software, USB cable
5	ADVANCED 8085 MICROPROCESSOR TRAINER	This is a 8085 Microprocessor based product designed to teach students about 8085 architecture and its programming techniques. This provides a very simple and user friendly platform for students so they can learn about 8085 Microprocessor architecture and implement their own ideas with different peripherals provided on board. Practical experience on this board carries great educational value for science and engineering students., It should have following features: Diagrammatic representation of full system, Powerful monitor program, Battery backup for RAM, Three channel Timer/counter using 8253, 48 I/O lines using 8255, On board EPROM programmer for 27 series, On board 8 channel ADC, On board DAC, Facility of downloading and uploading the files from PC., Two command mode interface, ASCII Keyboard, Serial Mode, All Address and Control lines are available on 50 pin Connector. It should have following Technical Specifications: Operating Frequency: 6.144 MHz, ROM: 8 K, RAM: 8K,Input: ASCII Keyboard, Display : 20 X 2 LCD, Power Supply: 110V - 260V AC, 50Hz, Operating Conditions:0-40° C, 85% RH, Learning Material: Online (Theory, procedure, reference results etc)Scope of Learning: Study of 8085 architecture, 8085 assembly language programming, Interfacing of 8085 with ADC, Interfacing of 8085 with DAC, Peripheral interfacing
6	ADVANCED 8086 MICROPROCESSOR TRAINER	It should have following features :Diagrammatic representation of full system, 72 I/O lines through 8255, Powerful monitor program, Battery backup for RAM, Three channel Timer/Counter using 8253, On board 8 channel ADC, On board DAC,Two modes of operation, Keyboard mode, Serial Mode, Facility of downloading and uploading the files from PC, All Address and Control lines are provided on 50 pin connector, It should have following Technical Specifications: Operating Frequency : 5 MHz, RAM :16 K, ROM : 16 K, Display : 20 X 2 LCD, Input : ASCII Keyboard, Mains supply : 90 - 230V AC, 50 HzIt should performed following experiments: 8086 Architecture, 8086 Assembly language programming, Interfacing of 8086 with ADC, Interfacing of 8086 with DAC, Working and interfacing of 8087 Math coprocessor, Working and interfacing of 8089 I/O Processor, Peripheral interfacing
7	Interface 1	8279 Key board & Display Controller
8	Interface 2	8257 Programmable DMA Controller
9	Interface 3	8255 Prog. Peripheral interface
10	Interface 4	Stepper Motor Controller
11	Interface 5	Traffic Light Controller
12	Interface 6	Temperature Measurement

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							

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (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. _____

Gross Total Cost (A+B): Rs. _____ (Amount in figures)