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

INVITATION LETTER

IET/TEQIP-III/2019-229-G

Package Code: TEQIP-III/2019/UP/ietl/279
Package Name: IET-TEQIP-ECD-LAB-7

Current Date: 05-Jul-2019
Method: Shopping Goods

Sub: INVITATION LETTER FOR IET-TEQIP-ECD-LAB-7

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	UNDERSTANDING AND EXPERIMENTATION WITH DIGITAL ICS	5	Institute of Engineering and Technology, Lucknow	
2	DIGITAL CIRCUITS DEVELOPMENT PLATFORM	5	Institute of Engineering and Technology, Lucknow	
3	Universal IC Tester	4	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.

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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 **60**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:

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 **14:30** 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**

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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

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Annexure I

Sr. No	Item Name	Specifications
1	UNDERSTANDING AND EXPERIMENTATION WITH DIGITAL ICS	It should have following features: Illustration of Combinational and Sequential circuits, ZIF Socket provided for easy connections, Compact size, Simultaneous use of multiple ICs, It should have following Technical Specifications: Mains Supply 90V - 250V, 50Hz, Fixed DC Power Supply: +12V, -12V, +5V, -5V, Fixed TTL Generator: 1Hz, 10Hz, 100Hz, 1kHz, 10kHz and 100kHz, Pulse Generator: 5V, ZIF Socket : 20 Pins (6 Nos.), 40 Pins (1 No.), Input Section : 12 toggle switches, Output Section: 12 LED indicator, Experiments that can be performed: Study of Basic Gates, Study of Half Adder using Logic Gates, Study of Full Adder, Study of Half & Full Subtractor using Logic Gates, Study of Magnitude Comparator, Study of Encoder / Priority Encoder, Study of Decoder & Demultiplexers, Study of Multiplexers, Study of BCD to 7 Segment Display, Study of Flip-Flop, Study of Register, Study of Counter,
2	DIGITAL CIRCUITS DEVELOPMENT PLATFORM	Tie Points on Breadboard : 1685 nos (solderless) DC Power Supplies : +5V, 1A; -5V, 500 mA (fixed) +3V to +15V, 500 mA (variable) -3V to -15V, 500 mA (variable) Pulser Generator : 1Hz to 1MHz in 6 steps (Variable in between the steps) Amplitude : +3V to +15V (CMOS), 5V (TTL) Duty Cycle : 50 %, TTL/CMOS output Pulser Switches : 2 nos (Push to 'On') Data Switches : 16 nos (Toggle switches) (TTL/CMOS output) Bicolor LED Display : 16 nos (TTL/CMOS input) BCD to 7 Segment Display : 2 nos Logic Probe : Logic level indicator (H/L)for TTL/CMOS mode (7 segment display) Mains Supply : 110-220V ± 10%, 50/60Hz Included Accessories : Breadboards (solderless) : 2 nos Connecting wires : 20 nos 2mm to 1mm Patch cords : 16 nos 2mm to 2mm Patch cords : 16 nos Mains cord : 1 no Scope of Learning Study of: • 8 bit Equality detector using IC-74HC688 1:16 De-multiplexer using IC-74HC154 16 to 4 Line encoder 8:1 Multiplexer using IC-74HC15 12 bit Odd Parity generator and 13 bit Parity checker 12 bit Even parity generator and 13 bit Even parity checker 4 bit Arithmetic logic unit Data writing in and reading from SRAM memory. DC Power Suppies Pulser Switches Logic Probe TTL/CMOS Mode Selector Pulser Generator 16 bit Data Switches Seven Segment Display 16 bit LED Display. Self contained & easy to operate Functional blocks indicated on board mimic Solderless breadboard On board DC Power Supplies On board Pulse Generator with TTL/CMOS mode Pulser switches and 16 bit Data switches Bicolor 16 bit LED display BCD to Seven segment display and Logic probe CMOS/TTL output Free e-learning course

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3	Universal IC Tester	Tests a wide range of Digital IC's such as 74 Series, 40/45 Series of CMOS IC's, It can test Microprocessor 8085, 8086, Z80, 8051, 89c51, It tests Peripherals like 8255, 8279, 8253, 8259, 8251, 8155, 6264,62256,8288,8284, It tests Opamp,555, Transistor Arrays, Analog switches, Opto couplers and Others, It tests 7 segment display of common cathode & common anode type, It has Auto search facility of IC's, Test by: Truth table/sequence table comparison, ZIF: 40 pin DIP ZIF sockets, Keys: 28 cherry keys Key pad with numerical & functional keys, Display: 9 Digit Seven Segment Display, Supply Input Voltage: 230V AC Device Supports Digital IC's T.T.L. 74XXX Series 7400 7401 7402 7403 7404 7405 7406 7407 7408 7409 7410 7411 7412 7413 7414 7415 7416 7417 7418 7419 7420 7421 7422 7423 7424 7425 7426 7427 7428 7430 7432 7433 7437 7438 7439 7440 7442 7443 7444 7445 7446 7447 7448 7449 7450 7451 7453 7454 7462 7464 7465 7470 7471 7472 7473 7474 7475 7476 7478 7483 7485 7486 7489 7490 7491 7492 7493 7495 7496 7497 74107 74109 74112 74113 74114 74116 74121 74122 74123 74125 74126 74128 74132 74133 74134 74135 74136 74137 74138 74139 74140 74141 74145 74147 74148 74150 74151 74152 74153 74154 74155 74156 74157 74158 74159 74160 74161 74162 74163 74164 74165 74166 74168 74169 74170 74172 74173 74174 74175 74176 74177 74180 74181 74182 74183 74184 74185 74189 74190 74191 74192 74193 74194 74195 74196 74197 74198 74200 74221 74238 74240 74241 74242 74243 74244 74245 74246 74247 74248 74249 74251 74253 74256 74257 74258 74259 74260 74266 74273 74279 74280 74283 74290 74293 74298 74299 74322 74340 74341 74344 74347 74348 74350 74351 74352 74353 74354 74365 74366 74367 74368 74373 74374 74375 74377 74378 74379 74381 74382 74386 74390 74393 74395 74398 74399 74412 74423 74425 74426 74445 74447 74490 74521 74534 74540 74541 74590 74591 74595 74543 74544 74563 74564 74573 74574 74575 74577 74580 74589 74596 74620 74621 74622 74623 74638 74639 74640 74641 74642 74643 74645 74646 74647 74648 74649 74652 74657 74668 74669 74670 74688 74689 74786 74800 74802 74804 74805 74808 74832 74841 74874 74901 74902 74903 74904 74906 74C923 74C925 74C926 74C927 74C928 74C929 74989 741244 741245 741623 741621 741639 741640 741641 741642 741643 741644 741645 743037 743038 74H01 74LS51 74H54 74L54 74L71 74H71 74LS73 74LS76 74LS78 74L85 74L86 74C89 74L93 74L95 74LS107 8280 8281 8290 8291 CMOS (CD 4XXX SERIES) 4000 4001 4002 4006 4007 4008 4009 4010 4011 4012 4013 4014 4015 4017 4018 4019 4020 4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032 4033 4034 4035 4038 4040 4041 4042 4043 4044 4046 4047 4048 4049 4050 4051 4052 4053 4054 4055 4056 4060 4063 4066 4067 4068 4069 4070 4071 4072 4073 4075 4076 4077 4078 4081 4082 4085 4086 4093 4094 4095 4096 4098 4099 40105 40106 40107 40109 40147

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40160 40161 40162 40163 40174 40175 40181 40182 40192
40193 40194 40195 40244 40245 40257 40373 40374 40097
40098 4490 4502 4503 4504 4506 4507 4508 4510 4511 4512
4514 4515 4516 4518 4519 4520 4522 4526 4527 4528 4531
4532 4534 4538 4539 4541 4543 4544 4555 4556 4558 4562
4566 4572 4584 4585 4599 4723 4724 4727 MEMORIES2102
2114 2115 2125 2147 2148 2149 6116 6264 62256 621024 9101
91L22 93412 93422 93425 41256 4256 50256 NV RAMS 1220
1225 1230 1235 1240 1245 2210 2212 CPU 8085 8086 V20 8088
8400(Z80) 6502 65C02 65SC02 PERIPHERALS 8155 8156
8205 8212 8216 8226 8237 8251 8253 8254 8255 8257 8259
8279 8282 8283 8284 8286 8287 8288 8250 82450 6350 6820
6821 6822 6840 6844 6845 6850 6851 6852 6854 6520 6521
6522 6524 6551 65C51 8420(Z80PIO) 8430 (Z80CTC)
8440(SIO-0) 8441 (SIO-1) 8442 (SIO-2) 8449 (SIO-90) 1852
1871 1879 2681 TRANSISTOR ARRAYS ULN 2001 2003 2004
2005 2011 2013 2014 2015 2021 2023 2024 2025 2064 2065
2066 2067 2801 2803 2804 2805 2811 2813 2814 2815 2821
2823 2824 2825 RCA 3083 3086 75468 75491 75492
LATCH/DRIVERS UCN4801 UCN5801 LINE DRIVERS &
RECEIVERS 26LS31 26LS32 743037 743038 75174 75175
75176 75182 75183 75450 75451 75452 75453 75454 8820 8830
96174 96175 LINEAR ICs 124 224 324 339 358 386 393
ANALOG SWITCHES DG200 DG201 DG202 DG211 DG212
DG509 4016 4051 4052 4053 4066 TIMERS 555 556
CROSSPOINT SWITCHES 22100 42100 45100 22101 REAL
TIME CLOCKS 1879 5832 58167 82C8167 DS1287 PHASE
FREQUENCY DETECTORS MC4044 MC4344
DECODER/ENCODER 1441 1442 SUPERVISORY
CIRCUITRY Dallas 1231 1232 MX690 MX691 7 SEGMENT
DISPLAYS LT312 LT542 Lt543 5082 HP5501 OSCILLATOR /
DIVIDER 5369

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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. _____

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