

**E-5**

**PROCUREMENT OF GOODS  
UNDER  
NATIONAL SHOPPING  
PROCEDURES**

*For*

***E&TC Engineering Department***

***(For Contracts valued less than the  
Equivalent of US \$50,000 each)***

**No. / Category of quotation: - RIT/TEQIP/E5/ POWER ELECTRONICS / May 2005-06/ELN-1**

1. You are invited to submit your most competitive quotation for the following goods: -

**Schedule -A**

Sr. No.	Brief Description Of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1.	Digital Storage Oscilloscope with power scope	<ul style="list-style-type: none"> <li>• Bandwidth- 100 MHz</li> <li>• Sample Rate -1GS/s</li> <li>• No. of channels- 4</li> <li>• Isolation- fully Isolated &amp; Floating Channels,</li> <li>• 8 hours of continuous battery operation,</li> <li>• Time / Division range- 5 ns to 50 s/div</li> <li>• Max. Input Voltage- 1000 V rms ( Probe tip to earth),</li> <li>• Float voltage- 1200 VRMS between any two channels,</li> <li>• Vertical resolution- 8-bits,</li> <li>• Input impedance- 1 M Ohm ,</li> <li>• Input coupling- AC, DC, GND,</li> <li>• Automatic measurements,</li> <li>• I/O Interface,</li> <li>• Waveform Processing,</li> <li>• Power measurement Application Software- Power measurements, Harmonics Measurements, Switching Loss Measurements.</li> <li>• Accessories- 1.passive probe switchable X!,X10</li> </ul>	01	30 days	E&TC Dept.

		2. 100KHz 100 Amp peak AC DC Current probe 3. 200 MHz ,20X , 600 VRMS passive voltage probe			
2.	Digital Storage Oscilloscope	<ul style="list-style-type: none"> <li>• 60 Mhz 2 channel,</li> <li>• 1GS/S sampling rate</li> <li>• Monochrome display with standard accessories</li> </ul>	04	30 days	E&TC Dept.

**No. / Category of quotation: - RIT/TEQIP/E5/ Video & Communication  
/MAY 2005/004/Eln-02**

1. You are invited to submit your most competitive quotation for the following goods: -

**I) Trainer Kits**

**Schedule - A**

Sr. .no	Brief Descripti on of the Goods	Specifications	Qty	Delive ry Period	Place of Delivery
1	AM DSB/SSB receiver trainer	<ul style="list-style-type: none"> <li>• Super hetero dyne receiver, frequency range: 400 –1500 K Hz, IF 455 KHz.</li> <li>• External input RF signal facility, output IF frequency adjustable.</li> <li>• Dual tuned LC filter.</li> <li>• RF amplifier with gain, multiple IF amplifier stages Diode envelope detector, product detector audio output.</li> <li>• External AF input facility and speaker replacement by dummy load.</li> <li>• Simple and delayed AGC measurement facility.</li> <li>• Inbuilt powers supply gnd, +5V, +/-12 V, and sufficient test points for observing intermediate waveforms, relevant accessories.</li> </ul>	1	30 days	E&TC Dept.
2	FM transmitte r trainer	<ul style="list-style-type: none"> <li>• Synchronous function generator with waveforms sine, triangular, square amplitude 0-2 V p-p, frequency range: 100 Hz to 10 KHz.</li> <li>• FM modulator: varactor modulator with carrier frequency adjustment, carrier frequency 400 –500 KHz.</li> <li>• FM generation by reactance modulator.</li> <li>• Mixer, Transmitter output frequency of 455 KHz.</li> <li>• Inbuilt powers supply Gnd, +5V, +/-12 V, and sufficient test points for observing intermediate waveforms, relevant accessories.</li> </ul>	1	30 days	E&TC Dept.
3	FM receiver trainer	<ul style="list-style-type: none"> <li>• Foster seely discriminator: carrier 400 – 500KHz adjustable, input amplitude 1 V p-p.</li> <li>• Ratio detector, PLL based, phase and FM quadrature detector, detuned resonant detector with same specs as above.</li> <li>• Amplitude limiter, LPF audio output</li> <li>• Inbuilt powers supply Gnd, +5V, +/-12 V, and sufficient test points for observing intermediate waveforms, relevant accessories</li> </ul>	1	30 days	E&TC Dept.
4	TDM – PCM Modulati on / transmitte r trainer	<ul style="list-style-type: none"> <li>• Minimum two TDM-PCM analogue channels</li> <li>• On bold generators with AF sine wave (Adjustable Amplitude) and variable DC.</li> <li>• Sync signal generated using pseudorandom sync code generator.</li> </ul>	1	30 days	E&TC Dept.

**Schedule -B**

Sr. .no	Brief Descripti on of the Goods	Specifications	Qty	Delive ry Period	Place of Delivery
01	Digital camera	Still camera function with memory stick 540.000 pixel 350.000 effective pixels zoom 20x optical , 990x digital super nightshot steadyspot handycam remote commander	01	30 days	E&TC Dept.
02	DVD Player	MP3, VCD, DVD, Kodak Photo, JPEG Photo Multi Disk Resume Optical Output WW Voltage	01	30 days	E&TC Dept.

**No. / Category of quotation: - RIT/TEQIP/E5/ Computer /May 2005-06/Eln-03**

1. You are invited to submit your most competitive quotation for the following goods: -

**Schedule –A**

01	Pen Drive	iBall USB Pen Drive with high speed USB 2.0 interface  <b>Technical Features:</b> USB 2.0 and 1.1 Compliant Solid-State (No moving internal parts) Security switch LED Read/Write Indicator Password protection software (Windows) included to safe guard your data	03	One Month	ETC DEPT.
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**Schedule -B**

Sr. No	Brief Description of item	Specification	Qty	Period of delivery	Place
01	Dot matrix printer	Dot matrix printer 132 column 24 pin / USB Interface	02	One Month	E&TC DEPT.

**Schedule -C**

Sr. No	Brief Description of item	Specification	Qty	Period of delivery	Place
01	Air conditioner	Air conditioner with 1.5 tone capacity	02	One Month	E&TC Dept.
02	Air conditioner	Air conditioner with 1.0 tone capacity	01	One Month	

**Schedule- D**

<b>Sr. No</b>	<b>Brief Description of item</b>	<b>Specification</b>	<b>Qty</b>	<b>Period of delivery</b>	<b>Place</b>
01	Image processing workbench	Image processing software Color CCD camera with high resolution Color frame grabber card Other accessories	01 Set	One Month	E&TC Dept.

**No. / Category of quotation: - RIT/TEQIP/E5/ VLSI & Embedded system**  
**/MAY 2005/004/Eln-04**

1. You are invited to submit your most competitive quotation for the following goods: -

**I) Trainer Kits**

**Schedule -A**

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Evaluation board with P89C669 $\mu$ C	<ul style="list-style-type: none"> <li>• At 12 MHz</li> <li>• 96KB flash,</li> <li>• 2KB SRAM,</li> <li>• 2 serial ports on a single 9 pin D type connector, split cable to avail both ports and one of the port compatible with TTL and RS-232C std</li> <li>• I2C compatible:               <ul style="list-style-type: none"> <li>- On board 64 KB EEPROM</li> <li>- RTC with lithium battery</li> </ul> </li> <li>• Selector switch to toggle between programming and execution mode</li> <li>• Connectors               <ul style="list-style-type: none"> <li>- 16 pin for alphanumeric LCD</li> <li>- 12 pin for 5 x 5 Matrix Keyboard</li> </ul> </li> <li>• Power supply adapter</li> <li>• Software support for FLASH memory</li> <li>• Concise board with max dimension of 90 mm x 90 mm</li> </ul>	3	30 days	E&TC Dept

**Schedule -B**

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Evaluation board with AduC831 $\mu$ C	<ul style="list-style-type: none"> <li>• At 11.0592 MHz</li> <li>• 62KB flash,</li> <li>• 2KB SRAM,</li> <li>• 1 serial ports RS-232C std</li> <li>• I2C compatible:               <ul style="list-style-type: none"> <li>- on board 64 KB EEPROM</li> <li>- RTC with lithium battery</li> </ul> </li> <li>• Selector switch to toggle between programming and execution mode</li> <li>• Connectors               <ul style="list-style-type: none"> <li>- 16 pin for alphanumeric LCD</li> </ul> </li> <li>• - 12 pin for 5 x 5 Matrix Keyboard               <ul style="list-style-type: none"> <li>- 14 pin for analog input and output</li> </ul> </li> <li>• Power supply adapter</li> <li>• Software support for FLASH memory</li> <li>• Concise board with max dimension of 90 mm x 90 mm</li> </ul>	2	30 days	E&TC Dept

**Schedule -C**

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	8051 based single board computer with DS89C450	<ul style="list-style-type: none"> <li>• At 12 MHz</li> <li>• On chip               <ul style="list-style-type: none"> <li>- 64KB flash,</li> <li>- 1KB SRAM</li> </ul> </li> <li>• Provision for data and control signals on connector with at least 3 chip select</li> <li>• 2 serial ports compatible with TTL and RS-232C std</li> <li>• 124 KB external data RAM</li> <li>• I2C compatible:               <ul style="list-style-type: none"> <li>- On board 64 KB EEPROM</li> <li>- RTC with lithium battery</li> </ul> </li> <li>• Selector switch bank for programming and execution modes, external memory selection</li> <li>• Connectors               <ul style="list-style-type: none"> <li>- 16 pin for alphanumeric LCD</li> <li>- PS/2 Keyboard</li> <li>- Centronic Printer interface</li> </ul> </li> <li>• Power supply adapter</li> <li>• Software support for FLASH memory</li> </ul>	2	30 days	E&TC Dept

#### Schedule -D

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	PIC 16F877 Microcontroller Trainer board	<ul style="list-style-type: none"><li>• Onboard Programmer</li><li>• Power supply 12V/5V</li><li>• Program Downloading cable</li></ul>	02	30days	E&TC Dept

#### Schedule -E

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	PIC 16F84 Microcontroller Trainer board	<ul style="list-style-type: none"><li>• Onboard Programmer</li><li>• Power supply 12V/5V</li><li>• Program Downloading cable</li></ul>	02	30days	E&TC Dept

#### Schedule -F

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	Philips: LPC2104/05/06 Trainer Kits	<ul style="list-style-type: none"><li>• ARM Controllers</li></ul>	02	30days	E&TC Dept

#### Schedule -G

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	Atmel: AT91M42800A Trainer Kits	<ul style="list-style-type: none"><li>• ARM Controllers</li></ul>	02	30days	E&TC Dept

**Schedule -H**

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	Analog I/O card	<ul style="list-style-type: none"> <li>• I2C compatible:               <ul style="list-style-type: none"> <li>- 8 bit, 8 channel Analog Input,</li> <li>- 2 Analog Output, 8 bit, 0 to +5V</li> </ul> </li> <li>• Compatible with item no 5 i.e. Evaluation board with P89C669 <math>\mu</math>C</li> </ul>	2	30 days	E&TC Dept

**Schedule -I**

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	16 char x 2 row Alphanumeric LCD	<ul style="list-style-type: none"> <li>• With back lighting</li> <li>• Connecting cables</li> <li>• Compatible with               <ul style="list-style-type: none"> <li>- item no 5 i.e. Evaluation board with P89C669 <math>\mu</math>C</li> <li>- item no 6 i.e. Evaluation board with AduC831 <math>\mu</math>C</li> </ul> </li> <li>• 8051 based single board computer with DS89C450</li> </ul>	2	30 days	E&TC Dept

**Schedule -J**

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>

1	5x5 matrix keyboard	<ul style="list-style-type: none"> <li>• Connecting cables</li> <li>• Changeable skin</li> <li>• Compatible with <ul style="list-style-type: none"> <li>- Evaluation board with P89C669 <math>\mu</math>C</li> </ul> </li> <li>• Evaluation board with AduC831 <math>\mu</math>C</li> </ul>	2	30 days	E&TC Dept
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### Schedule -K

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Graphics LCD 240 x128 pixels module	<ul style="list-style-type: none"> <li>• Using TOSHIBA controller</li> <li>• Working on +5V supply</li> <li>• Backlight programmable</li> <li>• Modes <ul style="list-style-type: none"> <li>- Text</li> <li>- Graphics</li> <li>- Text-Graphics</li> </ul> </li> <li>• Compatible with</li> <li>• 8051 based single board computer with DS89C450</li> </ul>	2	30 days	E&TC Dept

### Schedule -L

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Digital I/O card	<ul style="list-style-type: none"> <li>• 8 Digital Input</li> <li>• 8 Digital Output with LED indication</li> <li>• Compatible with <ul style="list-style-type: none"> <li>- Evaluation board with P89C669 <math>\mu</math>C</li> </ul> </li> <li>• Evaluation board with AduC831 <math>\mu</math>C</li> </ul>	5	30 days	E&TC Dept

### Schedule -M

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	Ethernet Interface card	<ul style="list-style-type: none"><li>• 10 Mbps</li><li>• Network Topology 10Base-T</li><li>• Memory 16KB</li><li>• RJ 45 connector</li><li>• Using RTL8019AS Ethernet controller</li><li>• Compatible with</li><li>• 8051 based single board computer with DS89C450</li></ul>	2	30 days	E&TC Dept

### Schedule -N

<b>Sr. .no</b>	<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Qty</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>
1	VLSI Trainer Kit	CPLD Device XC 9572- 15pc84 Additional plcc 44 pin socket FPGA Device SPARTAN XCS 05-4PC84 SPROM/Parallel PROM	01 set each	30 days	E&TC Dept

## II) Software' s:

### Schedule -A

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1.	Windows based Cross Assembler XA-8031 or equivalent	<ul style="list-style-type: none"><li>Windows based 8031/51 <b>Cross Assembler</b> with Multifile Assembler, relocatable Object Module Linker and Output file utility</li></ul>	01	45 days	. E&TC Dept
2.	8051 family Development Tool	<ul style="list-style-type: none"><li>'C' Compiler for 8051</li><li>Visual code generator in C &amp; Assembly to configure Serial port, Timer,&amp; Interrupts</li><li>ISP Programming</li></ul>	01	45 days	. E&TC Dept

### Schedule -B

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1.	PROTEUS VSM	<ul style="list-style-type: none"><li>Microcontroller Simulation Software</li><li>Run(Simulate) program Continuously or step by step</li><li>Simulate peripherals such as 8255, LCD, Memory...</li><li>Support multiple break points.</li></ul>	01	45 days	. E&TC Dept

### Schedule -C

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	SC51	<ul style="list-style-type: none"><li>• 'C' compiler for 8051</li><li>• Runs on Windows98/NT/2000/ Xp</li><li>• Assembler, Linker</li><li>• Supports multiple C &amp; ASM files in one project</li><li>• Visual Code Generator</li></ul>	01	45 days	. E&TC Dept

### Schedule -D

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	ARM family Development Tool	<ul style="list-style-type: none"><li>• Assembly Language &amp; C programming for ARM Controllers</li></ul>	01	45 days	. E&TC Dept

### Schedule -E

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	PIC family Development Tool	<ul style="list-style-type: none"><li>• C compiler for all PIC&amp; AVR Controllers</li><li>• Assemblers &amp; Linkers</li></ul>	01	45 days	. E&TC Dept

### Schedule -F

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Data Acquisition System	<ul style="list-style-type: none"><li>• Pc based DAS Software</li><li>• ISA/PCI/CPCI/PC104 based Acquisition</li><li>• Terminal board &amp; accessories</li></ul>	01	45 days	. E&TC Dept

### Schedule -G

Sr. .no	Brief Description of the Goods	Specifications	Qty	Delivery Period	Place of Delivery
1	Active HDL	Simulation tool	01	One Month	E&TC Dept

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 250 Million towards the cost of the TEQIP 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. **Bid Price**

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
  - b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
  - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - d) 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 deadline date specified for submission.

6. **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) Are properly signed; and
- (b) Confirm to specifications and the specific terms and conditions as follows:

**The Quotations would be evaluated for all the items together in each schedule.**

7. **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.

- 7.1 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.
- 7.2 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.
8. The contractor or supplier should give training to faculty of the department.
9. Payment shall be made immediately after delivery of the goods.
- 9 Normal commercial warranty/ guarantee shall be applicable to the supplied Goods.
- 10 You are requested to provide your offer latest by 12.30 PM. hours on 20/06/05
- 11 The hard copy of this Bid is available with Store keeper of ELECTRONICS Engg. Department on payment of Rs. 100/-
12. We look forward to receiving your quotations and thank you for your interest  
In this project.

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