

**INDIAN INSTITUTE OF ENGINEERING SCIENCE & TECHNOLOGY**

**(Formerly Bengal Engineering and Science University, Howrah)**

P.O. Botanic Garden, Howrah – 711 103, INDIA.

(Tel: 91-33-2668 4561 Extn. 600)

**TENDER NOTICE INVITING QUOTATIONS**

For

**Supply & Installation of Various Equipment/Instruments for CST Department**

**Advt. No. JA/D(AA)/17/12**

**Dated:30.01.2017**

You are invited to submit your most competitive quotations for supply and installation of high quality equipment/instruments e.g. Trainer kits for SOC/Motherboard/HDD/LCD/UPS/Robotics, PLC, EPROM programmer, etc. for CST Department, Indian Institute of Engineering Science and Technology, Shibpur. Howrah.

**List of Equipments/Simulation tools**

Sl No	Item	Quantity
A1	All Programmable SoC evaluation kit	2
A2	Web-enabled TINI-board	5
A3	Robotics kits	5
A4	PLC	1
A5	EPROM Programmer	2
B1	Trainer kit to study Motherboard with chipset and processor	5
B2	Hard disk Trainer kit (SATA and IDE)	5
B3	Trainer kit to study working of LCD Monitor	5
B4	Trainer kit to study working of UPS	2

Note:-

1. Please submit separate quotation for each series (A/B) shown in the column 'Sl No'.
2. Specify Make and Model No. of quoted items.
3. In a bid, for any item, a single product from a particular OEM has to be quoted. That is, not more than one product can be quoted against any particular item.
4. All the items of series B preferably be from a single OEM.
5. Quantities are approximate. It may be lesser or more.
6. All the items require 3-year comprehensive on-site warranty. If any item (or part of it) is not covered under the warranty or related clause, it must be clearly indicated in the bid/ offer/ quotation.
7. Details specifications of relevant items are given in annexure.
8. Submission of quotations closes at 3-00 pm, 13-2-2017. Tender opening: 13-2-2017 at 3.15 PM

**Computer Science and Technology Department**  
**INDIAN INSTITUTE OF ENGINEERING SCIENCE & TECHNOLOGY, Shibpur**  
Terms, Conditions and Important Instructions for Vendors Quoting against  
**Advt. No. JA/D(AA)/17/12** **Dated:30.01.2017**

1. The original tender document with technical specifications is available at [www.iiests.ac.in](http://www.iiests.ac.in).
2. Submission of quotations closes at 3-00 pm, 13-2-2017. The tender opening schedule is 13-2-2017 at 3.15 PM.
3. Quotations, addressed to the Head, Computer Science and Technology, IEST, are to be submitted in sealed cover, noting Advt. No. on the top of the envelope along with vendor's name, address, phone no. etc. in the office of the CST Department.
4. Quotations are to be submitted in original after accepting the terms and conditions.
5. Vendor's Bank account no, with IFSC code, Photo copy of PAN Card & certificate of VAT are to be attached with the quotations.

Copy of similar type of order received from any other similar Educational Institute, during the last one year, can be submitted for credentialed. **DELETED**

7. In a bid, for any item, a single product from a particular OEM has to be quoted. That is, not more than one product can be quoted against any particular item.
8. Vendor should ensure compliance against each technical specification along with proper evidence.
9. Equipment and other items, to be supplied, should be as per the specification and approved by the appropriate authority.
10. The quoted price shall include additional charges, if any, for all comprehensive warranty extended up to the period mentioned.
11. Price should be quoted item-wise in Indian currency and inclusive of all taxes, duties and levies as applicable. Type and amount of these taxes, duties and levies are to be mentioned clearly.
12. Equipment/items are to be delivered within 21 days from the date of issue of the purchase order.
13. The supplier is responsible for any breakage, damage or defect in equipment/items, detected subsequently, prior to final commissioning.
14. Bills and challans in duplicate should be presented for payment within 15 days of supply of equipment or completion of work. All bills are to be accompanied by copy of orders and receipt or challan. Order number no. with date, VAT no. and PAN no. are to be mentioned on both Challan and Bills.
15. Payment will be made by a/c payee cheque or by Account transfer after submission of proper bills and challans. No cash payment will be made under any circumstances. No advance payment can be made.
16. All payments are subjected to statutory deductions as and when applicable.
17. Documents to be submitted with the quotations (put tick marks, in the list of items, against the items quoted).
  - A. Terms and conditions (given below), in original, duly signed by the authorized personnel, on behalf of the vendor, as a token of acceptance of terms and conditions of the Tender.
  - B. Copy of the latest Income Tax, Sales Tax, Professional Tax clearance certificate along with VAT No & Trade License.
  - C. Price quoted in a sealed envelope in separate page(s) and duly signed.
  - D. Valid authorization certificates of distributorship from Principal Manufacturer whenever applicable.

18. Terms and Conditions

- a. All the Equipment/Items shall carry a guarantee for a minimum period mentioned in the tender document from the date of successful installation (if any item or parts of it is not covered under the warranty or related clause then it must be clearly indicated in the bid /offer/quotation).
- b. Supply of Equipment includes installation, erection, commissioning, demonstration & training whenever applicable.
- c. Indian Institute Of Engineering, Science and Technology, Shibpur, Howrah, reserves the right to reduce or enhance the quantity of item(s) to be procured as mentioned in the tender document. One or more item(s) may be cancelled too.
- d. Indian Institute of Engineering, Science and Technology, Shibpur, Howrah, reserves the right to accept/reject all or any of the tender items without assigning any reason whatsoever.

I/we accept the above terms and conditions.

Signature of the Appropriate authority of the Vendor with Seal

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**A1. All Programmable SoC evaluation Kit**

<b>Features</b>	<p>Includes all basic components of hardware, design tools, IP. Supports complete embedded processing platform, with Dual ARM Cortex-A9 core processors; networking applications with 10-100-1000 Mbps Ethernet; video display applications. Transceiver based designs including PCIe. Industry-standard FPGA Mezzanine Connectors (FMC). Supports for customization with daughter cards. Onboard configuration circuitry. 2X16MB Quad SPI Flash, SDIO Card Interface, PC4 and JTAG ports, Expansion Connectors. 1GB DDR3 Component Memory. 1GB DDR3 SODIM Memory. Serial connectivity with PCIe, USB OTG, UART. 2 User Push Buttons/Dip Switch, 2 User LEDs. SDIO (SD Card slot). IIC access to 8 I/O. Current measurement capability of supplies. AMS interface System Monitor/HDMI Video output. Design Suite (IP) for all programmable devices. Power Supply 230 V <math>\pm</math>10%, 50/60 Hz. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure. A self contained Trainer of less than 5.0 Kg. User manual hard copy.</p>
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**A2. Web-enabled TINI-board**

<b>Features</b>	<p>The TINI platform's hardware and runtime environment. TCP/IP networking and dial-up networking using PPP. Asynchronous serial communication. TINI's parallel I/O bus, memory access modes, and port-pin control. 1-Wire Net fundamentals, adapters. Managing system resources, including real-time clock/external interrupts. Application programming with TINI. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure.</p>
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**A3. Robotics Kit**

<b>Features</b>	<p>Four Duo controllers. Power supply, USB cable, terminal tool. Hobby servos and servo extension cables. Six gear motors with wheels and plastic block adapters. Six vibration motors. Four light and temperature sensors. Two distance, sound, and rotary sensors. Packaged in tray organizer. Programming facilities. Software support. PC/Microprocessor based control/programming support. Necessary cables, Converters/Connectors compatible with power source. User manual hard copy.</p>
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#### A4. PLC

<b>Features</b>	<p>Slim or All-In-One style. CPU units are equipped with 10, 16, 20, 24, or 40 I/Os. Maximum of 264 I/Os can be configured on a single MicroSmart CPU. Expansion modules: AC/DC inputs, relay/transistor outputs, RTD/Thermocouple and Analog I/Os, and AS-interface Master communication module. Standard RS232 port, optional plug-in RS485/RS232 port for data link or modem communications. Optional plug-in HMI module for monitoring, memory cartridge. Built in Modbus-CRC, PID and Ramp functions. 4 built-in high speed counters, interrupt and catch inputs. Data link for up to 32 MicroSmart or other IDEC PLCs cULus, CE, TUV and Lloyds approved. Easy programming. Web server module for faster, easier ethernet connectivity. User manual hard copy.</p>
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#### A5. EPROM Programmer

<b>Features</b>	<p>Support 5V device, USB for power source. Effectively protection for programmer and devices. USB load testing (0 to 10 levels). 40-pin self-lock sockets. Working support for WINDOWS/XP. Kit in handy enclosure, User manual hard copy.</p>
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#### B1. Trainer kit to study Motherboard with chipset and processor

<b>Features</b>	<p>Supports study of mother board circuit of Computer. Supports tracing of the circuit and identification of components. Understanding the alignment and adjustment procedure. Measurement of test point voltages. Observation of test point waveforms. Power Supply 230 V <math>\pm</math>10%, 50/60 Hz. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure. A self contained Trainer of less than 4.0 Kg. User manual hard copy.</p>
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#### B2. Hard disk Trainer kit (SATA and IDE)

<b>Features</b>	<p>Study of Hard disk drive used in computer on a single PCB. Input Voltage +5v/200mA, +12v/mA. Hard disk: 40G. Input Wattage 500mW. Input Cables: 4pin supply. Power Supply 230 V <math>\pm</math>10%, 50/60 Hz. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure. A self contained Trainer of less than 4.0 Kg. User manual hard copy.</p>
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**B3. Trainer kit to study working of LCD Monitor**

<b>Features</b>	Trainer Kit for practical knowledge of LCD on single PCB. Video Input : RGB VGA (HD-15) Remote Control: On screen display of Volume/Brightness/Contrast. Channels : 2 to 70 Audio Amplifier.5W PMPO Image Brightness : 300 cd/m <sup>2</sup> Max Resolution : 1280 x 1024 Power Supply 230 V $\pm$ 10%, 50/60 Hz. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure. A self contained Trainer. User manual hard copy.
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**B4. Trainer kit to study working of UPS**

<b>Features</b>	Trainer kit to study of UPS. To study of battery monitoring circuit. To test UPS under LOAD condition/Understand the faults. Power Supply 230 V $\pm$ 10%, 50/60 Hz. Necessary cables, Converters/Connectors compatible with power source. Wooden/High Quality plastic/or equivalent enclosure. A self contained Trainer. User manual hard copy.
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