

Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: 26 Dec 2013

Tender No:

Subject: **Purchase of Embedded Electronic Kits**

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **Supply of Embedded Electronic Kits** with one years on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document

The quotation should reach to **Dr. Sunil Jha, Room 156 Block III Dept. Of Mechanical Engineering IIT Delhi, Hauz Khas, New Delhi – 110016 latest by 5:00 P.M. on 10th Jan 2014.**

TECHNICAL SPECIFICATIONS:

S.No.	Items	Qty
1.	ARM Cortex-M3 32-bit RISC core Microcontroller Development kit with JTAG Debugger and following specifications: <ul style="list-style-type: none">a. 72 MHz STM32F103RB ARM Cortex™-M3 processor-based MCU in 64-pin LQFPb. On-Chip Memory: 128KB Flash & 20KB RAMc. USB 2.0 Full Speed Device Interfaced. CAN and UART interfacese. I2C, SPI and GPIO via PCB headersf. Character LCD (16x2)g. Analog Voltage Control for ADC Inputh. 8 LEDs and 3 push-buttonsi. Power via USB connectorj. Debug Interface Connectorsk. JTAG debugger should include all major IDE built in direct support, support unlimited breakpoints in flash memory, support 800 KByte/sec download speed into RAM, include support for GDB server, and support JTAG speed up to 12MHz	10 nos.

2.	<p>ARM Cortex-M3 32-bit RISC core Microcontroller Development kit with JTAG Debugger and following specifications:</p> <ul style="list-style-type: none"> a. 72MHz STM32F107VC ARM Cortex™-M3 processor-based MCU in 100-pin LQFP b. On-Chip Memory: 256KB Flash & 64KB RAM c. External Memory: 8KB I2C Flash d. Color QVGA TFT LCD with touch screen e. 10/100 Ethernet Port f. USB 2.0 Full Speed - USB, USB-OTG, & USB Host g. 2 CAN Interfaces h. Serial/UART Port i. Micro SD Card Interface j. 5-position Joystick and push-button k. 3-axis Motion sensor / Accelerometer l. Analog Voltage Control for ADC Input m. Audio CODEC with Line-In/Out and Speaker n. 80 GPIO pins o. Debug Interface Connectors p. JTAG debugger should include all major IDE built in direct support, support unlimited breakpoints in flash memory, support 800 KByte/sec download speed into RAM, include support for GDB server, and support JTAG speed up to 12MHz 	5 nos.
3.	<p>DRV8412 evaluation kit (DRV8412-C2-KIT) includes everything needed to control two brushed DC or a single stepper motor</p> <ul style="list-style-type: none"> i) the DRV8412 motor driver, ii) a C2000 Piccolo F28035 MCU controlCARD, iii) getting started GUI, software, code development environment, and motors 	2 Nos.
4.	<p>Digital IC Trainer Kits with Following Features:</p> <ul style="list-style-type: none"> a. Power Supplies: +5V/1A, ±12V/500mA, Ripple Less than 1mV, Regulation Less than 0.1% b. Protection against Load and short circuit c. BCD to Seven Segment Decoder - 2 Segments d. TTL Clocks - 1Hz to 1MHz e. Indication of output - Single/Dual colour High intensity LED f. Monopulse - High &Low g. IC Sockets - Four 16 Pin ZIF Sockets h. Solder less Bread board i. Logic I/P and O/P - 12 No's j. Dimension of Terminals- 2mm Sockets k. Manual - One Set i) Patch cords - One set of 10 No's 	10 Nos.
5.	<p>Interface Modules for ARM 7 Microcontroller Development kits (S.No. 1 & 2)</p> <ul style="list-style-type: none"> a. LCD (16X2) Interface. (5 nos.) b. Stepper Motor Interface with Stepper Motor (3kgcm) & Power Adapter. (2 nos.) c. Traffic Lights Interface. (5 nos.) 	1 Set

	<ul style="list-style-type: none"> d. Seven segment Display. (10 nos.) e. Elevator Interface. (5 nos.) f. DC Motor Interface. (2 nos.) g. Keyboard Display Interface. (5 nos.) h. DAC for ADC and Temperature sensor Interface. (5 nos.) i. Real Time Clock Interface. (5 nos.) j. Logic controller Interface. (10 nos.) k. 16 Channel 8-bit ADC Interface. (5 nos.) l. Opto Isolated Input Interface. (5 nos.) m. Opto Isolated Output Interface. (5 nos.) n. Relay Output Interface. (5 nos.) o. Temperature Transducer (RTD) Interface. (5 nos.) 	
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Terms & Conditions

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary “Custom Duty Exemption Certificate” can be issued after providing following information.
 - a. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
 - b. Forwarder details i.e. Name, Contact No., etc.

Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.

2. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
3. If the bidder is an authorized dealer of any manufacturer, the authorized Indian dealership certificate from the principles should be enclosed. Similarly, proprietary certificate for proprietary items should be provided.
4. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required-
 - a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.
5. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.
6. In case IIT Delhi is imposed with demurrage charge due to import on CIF, the entire demurrage charge has to be borne by the Indian Agent of foreign supplier.

7. Three years comprehensive warranty be provided and AMC price beyond 3 years should be mentioned separately.
8. Payment Options (any one to be chosen by the Department/ center)
Letter of Credit: 90% payment against shipping documents & balance 10% after satisfactory installation. For large purchase i.e. costing over Rs. 1 crore, 100% payment be made through LC.
Sight Draft: Payment against documents through bank.
Against Delivery: Payment by wire transfer after receipt of material.
Advance payment: pre-payment by wire transfer (for orders less than Rs. 5 lakh)
9. Delivery period: within 1 month from the issue of supply order.
10. The quotations must have validity of at least three months.
11. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.
12. In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.
13. If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.
14. Compliancy certificate must be provided indicating conformity to the technical specifications.
15. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any reasons.

(Dr. Sunil Jha)

ANNEXURE-I

Sub. : Compliance Report against supply of

Sl. No.	Details	Yes / No
1.	We have gone through the terms & conditions of the tender document	
2.	Our organization or any of its subsidiaries have not been blacklisted by any Govt. / Autonomous bodies / Universities / Govt. Institutes.	
3.	The quoted price is valid for 3 months from the last date of submission	
4.	Income Tax Certificate attached*	
5.	VAT & TIN number copy attached*	
6.	Service Tax & Sales Tax Registration Certificate attached*	
7.	A detailed list showing number of items supplied by our company in last six months to various Government Organizations/ Institutions/ IITs / NITs with their full address, name of the contact person, fax number, mobile number, telephone Nos. and E-mail identity is attached.*	

(Signature of authorized person)

Name: _____

Seal of the company

Date _____

ANNEXURE-II

DECLARATION

1. I, _____
hereby certify, that all the information and data furnished by me with regard to this tender specification are true and complete to the best of my knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.
2. I, further certify, that I am the duly authorized representative of the under mentioned tenderer.
3. I, further certify that my company meets all the conditions of eligibility criteria laid down to take part in the tender.
4. I, further specifically certify that my company has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

Name of Tendering Company/ Firm/ Agency (Attach certificates of registration)	
Name of proprietor/Director of Company/Firm/Agency	
Full Address of Office with Telephone No. and FAX	
E-Mail	
PAN No. (Attach attested copy)	
Service Tax & Sales Tax Registration No. (Attach attested copy)	
Contact Person Name	
Mobile Number	

(Signature of authorized person)

Name: _____

Seal of the company

Date_____