

**INDIAN INSTITUTE OF TECHNOLOGY, DELHI**  
**Department of Mechanical Engineering**

July 17, 2013

**Notice Inviting Quotation**

Sealed technical and commercial quotations are invited for purchase of **Embedded Electronic Kits and Software** as per below mentioned specifications:

S.No.	Items	Qty
1.	<p><b>ARM 7 Microcontroller Development kit with following specifications:</b></p> <ul style="list-style-type: none"> <li>i) 72 MHz STM32F103RB ARM Cortex™-M3 processor-based MCU in 64-pin LQFP</li> <li>ii) On-Chip Memory: 128KB Flash &amp; 20KB RAM</li> <li>iii) USB 2.0 Full Speed Device Interface</li> <li>iv) CAN and UART interfaces</li> <li>v) I2C, SPI and GPIO via PCB headers</li> <li>vi) Character LCD (16x2)</li> <li>vii) Analog Voltage Control for ADC Input</li> <li>viii) 8 LEDs and 3 push-buttons</li> <li>ix) Power via USB connector</li> <li>x) Debug Interface Connectors</li> <li>xi) 20-pin ARM Standard JTAG (0.1 inch connector)</li> <li>xii) With JTAG debugger for ARM Cores</li> </ul>	10 nos.
2.	<p><b>ARM 7 Microcontroller Development kit with following specifications:</b></p> <ul style="list-style-type: none"> <li>i) 72MHz STM32F107VC ARM Cortex™-M3 processor-based MCU in 100-pin LQFP</li> <li>ii) On-Chip Memory: 256KB Flash &amp; 64KB RAM</li> <li>iii) External Memory: 8KB I2C Flash</li> <li>iv) Color QVGA TFT LCD with touch screen</li> <li>v) 10/100 Ethernet Port</li> <li>vi) USB 2.0 Full Speed - USB, USB-OTG, &amp; USB Host</li> <li>vii) 2 CAN Interfaces</li> <li>viii) Serial/UART Port</li> <li>ix) Micro SD Card Interface</li> <li>x) 5-position Joystick and push-button</li> <li>xi) 3-axis Motion sensor / Accelerometer</li> <li>xii) Analog Voltage Control for ADC Input</li> <li>xiii) Audio CODEC with Line-In/Out and Speaker</li> <li>xiv) 80 GPIO pins</li> <li>xv) Debug Interface Connectors</li> <li>xvi) 20 pin JTAG (0.1 inch connector)</li> <li>xvii) 10 pin Cortex debug (0.05 inch connector)</li> <li>xviii) 20-pin Cortex debug + ETM Trace (0.05 inch connector)</li> </ul>	5 nos.

	<b>xix)</b> With JTAG debugger for ARM Cores,	
3.	<b>Altium Designer 10 Academic License Upgrade from R10 to R13 with 1 year support</b>	1 Set
4.	<b>DRV8412 evaluation kit (DRV8412-C2-KIT) includes everything needed to control two brushed DC or a single stepper motor</b> i) the DRV8412 motor driver, ii) a C2000 Piccolo F28035 MCU controlCARD, iii) getting started GUI, software, code development environment, and motors	2 Nos.
5.	<b>ARM9 Microcontroller Development kit with following specifications:</b> i) 125MHz LPC2929 ARM968E-S processor-based MCU in 144-pin LQFP ii) On-Chip Memory: 768KB Flash, 56KB RAM, & 16KB EEPROM iii) External Memory: 1MB SRAM iv) Color QVGA TFT LCD with touchscreen v) USB 2.0 Full Speed - USB, USB-OTG, & USB Host vi) 2 CAN Interfaces vii) Serial Ports viii) MicroSD Card Interface ix) 5-position Joystick and push-button x) Analog Voltage Control (2) for ADC Input xi) 104 GPIO pins xii) 20 pin JTAG (0.1 inch connector) xiii) JTag Debugger	2 Nos.
6.	<b>ARM9 Microcontroller Development kit with following specifications:</b> i) MCU STR912FAW44X ii) XTAL 25 MHz iii) ARM Processor ARM966E-S iv) On-Chip RAM 96K v) On-Chip FLASH 512K+32K vi) Push Buttons 3 vii) I/O Port LEDs 8 viii) Analog Input (Potentiometer) ix) Serial Ports 2 x) CAN Ports 1 xi) USB Device Interface xii) Ethernet Interface 10/100 xiii) SD Card Interface xiv) LCD Character xv) Debug Interface xvi) JTAG Interface xvii) 20-pin JTAG Connector	2 Nos.

**Terms and Conditions:**

1. Commissioning support at IIT Delhi will be provided along with the system.
2. Payment terms: As per IIT norms.
3. Technical compliance chart should be strictly attached with the bid.
4. Warranty should be 1 years.
5. All supplies should be complete within 8 weeks.
6. Quotations not sent in separate covers for technical and commercial bids are bound to be rejected.
7. Quotation validity should be minimum 60 days.
8. IIT Delhi reserves the right to accept or rejects any quotation without assigning any reasons thereof.

The quotations may reach the following on or before **31<sup>st</sup> July 2013 up to 5.00PM.**

Dr. Sunil Jha  
Associate Professor  
Department of Mechanical engineering  
Room No. 156, Block III  
IIT, Delhi, Hauz Khas, 110016, New Delhi