

## Mechanical Engineering Department IIT Delhi

02/07/2014

### Sub: NIQ for Sensor with Development Boards

On behalf of duly constituted purchase committee, sealed quotations are invited for below mentioned items. To be used for system Identification / modern mechatronics control experiments as per specifications given below.

Development boards of dsPIC30, dsPIC33 and PIC24, (5 Nos. each) supports MCUs from Microchip and dsPIC Compilers (1 No.)

- a) On-board jumpers for pull-up/pull-down port configuration, External ICD connector is used to connect In-circuit debugger, on-board USB 2.0 programmer, Screw in USB connector, Prototyping Area (bread board) on MCU board. The MCU board should be mounted in a sealable enclosure with adaptor to power from 220volts single phase mains.
- b) The enclosure should have holders for additional modules which may be plugged in on demand.
- c) Following onboard modules are should be supported and the financial quotation should have a section in the following format.

S.No.	Description of Items	Qty.	Price
1	USB UART module	5 Nos.	
2	Potentiometers for testing multiple AD conversions	5 Nos.	
3	PWM Drivers	5 Nos.	
4	LEDs and push buttons to indicate pins' logic state	5 Nos.	
5	Motor Control and drivers	5 Nos.	
6	Temperature Sensor	5 Nos.	
7	LCD	5 Nos.	
8	GLCD and 7seg	5 Nos.	
9	Piezo Buzzer	5 Nos.	
10	Serial SRAM module	5 Nos.	
11	Serial EEPROM	5 Nos.	
12	Touch Sense enables input	5 Nos.	
13	Real time module,	5 Nos.	
14	I2C	5 Nos.	
15	CAN	5 Nos.	
16	Blue tooth	5 Nos.	
17	Zig Bee	5 Nos.	
18	RFID	5 Nos.	

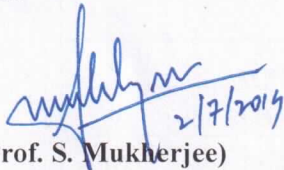
19	MMC Card R/W	5 Nos.	
20	GSM	5 Nos.	
21	Wireless Lan	5 Nos.	
22	GPS	5 Nos.	
23	Opto Isolator	5 Nos.	
24	Relay modules	5 Nos.	

d) The technical quote should indicate compatibility of the specific MCU board with items in c) above.

**Terms and Conditions:-**

- Please submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as “Technical Bid” and “Financial Bid”. Both the sealed envelopes should be sent in a single sealed envelope, with clearly marked as Quotation for “Sensor with Development Boards”.
- Please quote the price at FOB / CIF New- Delhi, inclusive of installation charges.
- Validity of the quotation must be at least 3 months.
- If the quote is being submitted by the representative of the principals/manufactures themselves, a valid Agency ship/ Dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the Principals should be enclosed.
- The institute reserves the rights to accept/reject any/all quotations without assigning any reasons thereof.
- Complete set of manuals for the operation of the equipment should be given.
- Warranty must be quoted as per the warranty offered by the manufacturer and will be effective from the date of installation of the system.
- If the item quoted are proprietary in nature, please enclose proprietary certificate from the principals stating “certified that ----- is proprietary item of M/s ----- and no other manufacture makes these items”.

**Sealed quotation should reach the Mechatronics Lab, Room No. II/420, Department of Mechanical Engineering, IIT Delhi, New-Delhi – 110016 on before 18/07/2014 up to 5.00 PM.**

  
2/7/2014

**(Prof. S. Mukherjee)  
Mechanical Engineering Dept.**

**Circulation:**

**Web upload, Mechatronics Lab Notice board, ME Department Notice board**