



College of Engineering, Pune – 411005

Invitation to Quotations for Design,
Manufacturing and Supply of Signal processing
module PCB

Ref: COEP/Instru/ARDE/Tender PCBs/2018-2019/0 8 1

Date: 19/04/2018

**INSTRUMENTATION AND CONTROL DEPARTMENT
COLLEGE OF ENGINEERING, PUNE**

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Tender No: COEP/Instru/ARDE/Tender PCBs/2018-2019/0 8 1

Date: 19/04/2018

Last date: 26/04/2018 on/before 04:00 PM

Subject: Invitation of sealed quotation for design, manufacturing and supply of PCBs.

College of Engineering Pune invites sealed quotation for design, manufacturing and supply of Printed Circuit Boards as per details given in the Table 1. Please refer to the attached for technical specifications and terms and conditions.

Sr. No.	Scope	Qty.	The matter to be written on the envelope of the quotation
1	Design, Manufacturing and Supply of PCBs as per Annexure-1	5	Quotation for “Design, Manufacturing and Supply of signal processing module PCBs”

Terms and Conditions:

1. Fax and Email quotations are not acceptable.
2. Quotations shall be sent in sealed envelope, mentioning clearly the **Quotation number, Quotation Date, Enquiry number, Enquiry date and due date**, addressed to the Principal Investigator, Virtual Laboratory Project, College of Engineering, Pune.
3. The tender documents are to be in two parts as **Technical Offer and as Commercial offer:**

- a) Technical Offer should include the detailed specifications of main equipment / items and its accessories. All items should be numbered as numbered above.
- b) Commercial offer should include the cost of main equipment/items and its accessories numbered as in (a). If there is any separate cost for installation etc. that should be quoted in Rupees separately. The total cost should be quoted in words as well as figures (typed or printed). Amendment should be avoided. Amendments, if any, should be duly initialed, failing which the offers are liable to be rejected.
- c) The two parts of the offer should be placed in separate sealed envelopes clearly marked “**Technical Offer**” & “**Commercial offer**”. These two envelopes must be enclosed in one bigger envelope duly sealed and super scribed with tender number, name of the instrument and tender due date must be forwarded to Prof. S. D. Agashe, Professor, Instrumentation & Control Department so as to reach him on or before the due date.
- d) The documents in “Technical Offer” should include but not limited to:
1. Detailed Specifications of Instruments/Equipment
 2. A note indicating to ”Deviation” if any
 3. Proof of supply to reputed firms/industries
 4. Printed/official literature detailing all aspects of working of these equipment/instrument
 5. Photos/Reports of successful installation/commissioning (Running of Instruments/Equipment)
 6. Test and calibration certificate
- e) The documents in “Commercial Offer” should include but not limited to:
- i) Basic cost of Instruments/Equipment
 - ii) Discount, if any
 - iii) Taxes to be quoted separately (Please note COEP is exempted from Customs Duty for eligible vendors)
 - iv) Other charges like freight, insurance, commissioning or support services, if any

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

4. Quotations should be valid for 60 days from the tender due date.
5. All duties, taxes and other levies payable by the bidder needs to be included in the total price, and break up needs to be indicated.
6. Quotations received after the due date and time will be rejected.
7. The prices quoted should be are “FOR College of Engineering., Pune –05” with the transportation, freight and Insurance charges to be borne by the supplier.
8. Delivery: The PCBs should be supplied at College of Engineering Pune within the period of **4 weeks** from the date of issue of purchase order with sample application to demonstrate working of module.
9. Penalty: If the suppliers fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be Charged and deducted from the payables.
10. The decision of the Director, College of Engineering, Pune, shall be final as regards the acceptability of quotation and Director, College of Engineering, Pune shall not be enquired to give any reason in writing or other wisest anytime for rejection of the quotation(s).

s/d
Director
College of Engineering Pune

Scope – Design, Manufacturing and Supply of PCBs

Technical Specifications:

Signal processing module should be capable to continuously convert signal as per specification and transfer to DSP. Digital signal processor should compliance as per **Table 1**.

Sr.no	Specification	Parameter
1	Dimension of signal processing module	80mm x 80mm
2	IF spectrum range	1Khz to 1000Khz
3	Resolution of ADC	12bit
4	Frequency resolution	1Khz
5	Signal range	0dbm two -100dbm
6	Digital Data protocol	USB
7	Power consumption	5V 200mA max.
8	ADC to DSP communication	Parallel interface 16-32 bit
9	DSP operating Frequency	300 to 450 MHz
10	DMA support	Programmable and 2 channel
11	Cache support	256KB L2
12	Parallel interface	yes
13	DSP Architecture	Floating and fixed point
14	Serial interface	USB and UART
15	External Clock generation module	10Khz to 10 MHz
16	RTC	32khz
17	Operating temperature	-30 Deg C to 63Deg C
18	Flash	NAND/NOR
19	Debug interface	yes
20	ADC speed	Upto 6 MSPS
21	ADC interface	Parallel uc/DSP
22	ADC signal to noise	68 db at f =2Mhz
23	RAM	265 MB

Table 1