



THE NATIONAL INSTITUTE OF ENGINEERING

(An Autonomous Institution)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE-III

Manandavadi Road, Mysuru – 570 008.

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Date: 10-08-2018

Invitation for Quotations

Quotations are invited for the procurement of the following equipments under TEQIP– III

1. Equipment: Communication Kit -1, Qty- 2 each

Sr. No	Item Name	Specifications
1	ASK & FSK Modulation and Demodulation Trainer	Carrier : on board sine wave generation Data bits: on board fixed format of data generator. ASK modulation using IC CD4051.
2	Delta & Adaptive modulation and demodulation with noise simulation trainer	Modulations & Demodulations: Linear & Adaptive (CVSD). On board Input signal (Sinusoidal):1 kHz, 2 kHz & non-sinusoidal (Variable Amplitude). On board Sampling Frequencies: 8khz, 16khz, 32 kHz, 64 kHz (Switch able) Onboard Compressor & Expander. VOICE INTERFACE to study the performance of Linear & Adaptive mod/demodulation. Inbuilt channel simulator to induce NOISE, attenuation and bandwidth.
3	PCM & DPCM Modulation & Demodulation.	Built in TTL Clock Generator 33 KHz. Modulating Signal Generator 15Hz to 300Hz. PCM & DPCM Encoder. PCM & DPCM Decoder. Data display with LED's Adequate no. of other electronic components. Codec Chip
4	PSK / DPSK Modulation and Demodulation trainer	• Carrier :on board sine wave generation with 0 deg and 180 deg • Data bits: on board fixed format of data generator. • PSK modulation using IC CD4051
5	QPSK Modulation and demodulation	Modulation: This covers the digital modulation technique QPSK and has following specifications. On board synchronized carrier square wave at 2MHz with four different Phases (0, 90, 180,270 degree). On board 8bit variable NRZ-L patterns generator. Dibit pair data coding technique of NRZ-L data format. QPSK modulation. Demodulation: This takes the modulated signal from modulator as an input and demodulates the same. Data format (decoding) Dibit pair (I & Q). QPSK Demodulation.

Delivery Period: 60 Days from the date of issue of purchase order. Warranty Period: 36 Months

Terms and Conditions

- i. Quotation should be invariably in the prescribed **format enclosed**; otherwise it is **liable to be rejected**.
- ii. Quotation should be sent in a **sealed cover superscribed as "Quotation for the supply of Communication Kit - 1 under TEQIP III"** to the office of the Principal (TEQIP- III), The National Institute of Engineering, Manandavadi Road, Mysore 570 008.
- iii. Last date and time for submission of quotation **24-Aug-2018, 17:30 hours**.
- iv. Installation and demonstration shall be at **Department of Electronics & Communication Engineering, NIE, Mysuru**.
- v. Quotation should be valid for **45 days** from the last date of submission of quotation.
- vi. Equipment should be delivered at **Department of Electronics & Communication Engineering, The National Institute of Engineering, Manandavadi Road, Mysore - 570008**.
- vii. **100% payment on installation, demonstration, successful completion in all respects and final acceptance by the Purchaser**.
- viii. **Authorized Dealer/ Channel Partner Certificate from the company** should be enclosed along with the quotation.
- ix. The Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____