

Quotation Invitation

NIT Uttarakhand invites the online Quotations for the Servicing/Repairing of Item “**Wireless Communication Kits (OFDM Modulator and Demodulator Training System)**” as per the specifications mentioned below:

S.No.	Description of Goods	Specification/Error being shown on display	Quantity
01	<p style="text-align: center;">Wireless Communication Kits (OFDM Modulator and Demodulator Training System)</p>	<p>OFDM Modulator and Demodulator Training System Features & Technical Specifications</p> <ul style="list-style-type: none"> • User friendly real-time interactive control and acquisition software for detail study of OFDM • Software control built-in data pattern generator • 64 point IFFT & FFT with Baseband QPSK modulation & demodulation Techniques. • Built-in Mixed signal oscilloscope to analyze in time domain at various stages of OFDM • Built-in noise generator for analysis of noise gain effect on the signal. • On-board BNC connector for OFDM baseband I-Q signal analysis on external DSO. • Anti-aliasing low pass filter with 3dB bandwidth of I & Q channel filter: Sallen Key 6-pole Butterworth. • I & Q Channel DACs-10 bit • Built in real-time data acquisition system with time domain signal analysis • Built in Two channel AWGN Generator • LED indications • Interface USB • Software programmable data rate • The training will include online single user Classroom/laboratory teaching, learning and simulation software module on Digital communication which have following key features: <ul style="list-style-type: none"> • Signals basics • Sampling & Reconstruction • Time Division Multiplexing • Pulse Code Modulation / Demodulation • Linear / Adaptive Modulation • Line Coding and Data Formatting: Unipolar NRZ-L, Unipolar NRZ-M, Unipolar RZ, Polar NRZ-L, Polar NRZ-M, Polar RZ, Polar Manchester, Biphase Manchester, Differential Manchester, Bipolar NRZ-L, Bipolar RZ, Bipolar RB, Bipolar AMI • Carrier Modulation Techniques: ASK, FSK, PSK, DPSK • Advanced Digital Modulation Techniques: QPSK, DQPSK, OQPSK, Pi/4 QPSK, 8-QAM, 16-QAM, MSK Modulation. <p>Additional Terms and Conditions:</p> <ol style="list-style-type: none"> 1. Delivery: 6 - 8 Weeks from the date of confirm order. 2. Warranty: 1 year 3. Installation will be done by vendor 4. Demonstration of equipment. 	06

The deadline to submit the quotation through online (emails) to the following Email addresses is on or before **05/02/2024**, 05:00 PM.

Dr. Tushar Goel, tushar.goel@nituk.ac.in, +91-7060530344

Dr. Mahiraj Singh Rawat, msrawat@nituk.ac.in, +91-8126938262

Dr. Sarika Pal, sarikapal@nituk.ac.in, +91-9711117416

Guidelines:

1. Quotation must be submitted only in the prescribed format (**Annexure I**).
2. The quotation format must be printed on the letter head of the vendor with seal and signature. Invalid quotations shall directly be rejected without any communication.
3. The quotations **must be password protected and only in PDF format**. The committee will contact through given mobile number to the respective vendor at the time of quotation opening.
4. Clearly mentioned your contact number in the mail body.
5. After due date and time, no quotation will be considered for processing.
6. The quotations will be evaluated as per GFR 2017 guidelines.
7. Institute reserves the right to cancel the process at any given point of time.
8. For more information, contact the above committee members.

Sd/
I/c, Registrar,
NIT Uttarakhand

Format

Printed on Company letter head

GST Number:-----

PAN number:-----

Date:

To,
The Director,
National Institute of Technology Uttarakhand,
Srinagar, Garhwal-246174

Subject: Online quotation for Procurement of Item “**Wireless Communication Kits (OFDM Modulator and Demodulator Training System)**”.

Specifications:

S.No.	Description of Goods	Specification/Error being shown on display	Quantity
01	Wireless Communication Kits (OFDM Modulator and Demodulator Training System)	<p>OFDM Modulator and Demodulator Training System Features & Technical Specifications</p> <ul style="list-style-type: none"> • User friendly real-time interactive control and acquisition software for detail study of OFDM • Software control built-in data pattern generator • 64 point IFFT & FFT with Baseband QPSK modulation & demodulation Techniques. • Built-in Mixed signal oscilloscope to analyze in time domain at various stages of OFDM • Built-in noise generator for analysis of noise gain effect on the signal. • On-board BNC connector for OFDM baseband I-Q signal analysis on external DSO. • Anti-aliasing low pass filter with 3dB bandwidth of I & Q channel filter: Sallen Key 6-pole Butterworth. • I & Q Channel DACs-10 bit • Built in real-time data acquisition system with time domain signal analysis • Built in Two channel AWGN Generator • LED indications • Interface USB • Software programmable data rate • The training will include online single user Classroom/laboratory teaching, learning and simulation software module on Digital communication which have following key features: <ul style="list-style-type: none"> • Signals basics • Sampling & Reconstruction • Time Division Multiplexing • Pulse Code Modulation / Demodulation • Linear / Adaptive Modulation • Line Coding and Data Formatting: Unipolar NRZ-L, Unipolar NRZ-M, Unipolar RZ, Polar NRZ-L, Polar NRZ-M, 	06

S.No.	Description of Goods	Specification/Error being shown on display	Quantity
		Polar RZ, Polar Manchester, Biphase Manchester, Differential Manchester, Bipolar NRZ-L, Bipolar RZ, Bipolar RB, Bipolar AMI <ul style="list-style-type: none"> • Carrier Modulation Techniques: ASK, FSK, PSK, DPSK • Advanced Digital Modulation Techniques: QPSK, DQPSK, OQPSK, Pi/4 QPSK, 8-QAM, 16-QAM, MSK Modulation. Additional Terms and Conditions: <ol style="list-style-type: none"> 1. Delivery: 6 - 8 Weeks from the date of confirm order. 2. Warranty: 1 year 3. Installation will be done by vendor 4. Demonstration of equipment. 	

Terms and Conditions of the vender/supplier (if any)

Name and Signature of
Company head with seal

Compete address with contact number at footer.