

UNIVERSITY INSTITUTE OF ENGINEERING TECHNOLOGY
PANJAB UNIVERSITY, CHANDIGARH

No. 3202/UIT
Dated 21/9/2026

Notice for inviting quotations

Kindly send your quotation in sealed cover with respect to our Enquiry and the date duly super subscribed on the cover for the purchase of following items

LAST DATE OF SUBMISSION OF QUOTATION IS: 28-09-2026

Sr No	Name of item	Specifications	Qty
1	Advanced Fiber optic Communication Trainer Kit	As per enclosed Annexure	3

Note: 1. kindly send the bid into two parts indicating Technical and Financial Bid. The Technical Bid and the Financial Bid should be sealed by the Bidder in separate covers duly super scribed and both these sealed covers are to be put in bigger cover which should also be sealed and duly super -scribed.

2. The Quotation should be submitted along with Earnest Money @ 2% of the estimated quoted fixed price of Rs.3000 (INR) in the shape of Demand Draft valid for 3 months in favour of the Director, UIET, PU, Chandigarh

Note: a) Kindly put Earnest Money in separate envelope (Cover) other than Technical and Financial Bid covers

b) NIQ with detailed specifications is also uploaded on website at www.uiet.puchd.ac.in

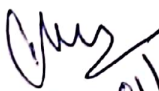
Address

Director, UIET
Sector-25, Panjab University,
Chandigarh.

Contact Person

Prof. Jaget Singh

Mobile-9464169791


Coordinator (ECE)


Director, 01/09/26
University Institute of
Engineering & Technology,
Panjab University, Chandigarh.

**Requirement for Optical Communication lab (414-B, Block-2) in ECE
branch of U.I.E.T.**

Sr. No	Item Description	Quantity	Rate	Total Amount
1.	<u>Specifications for ADVANCED FIBER OPTIC COMMUNICATION TRAINER KIT</u> Advanced Fiber Optic Trainer kit should have the functionality to perform experiments based on Full Duplex method of transmitting information from one place to another by sending pulses of light through an Optical fiber. The light forms electromagnetic wave that is modulated to carry information. Advanced Fiber Optic Communication kit should helpful in learning the different communication techniques in Fiber Optics, Demonstrates properties of Fiber Optics Transmitter & Receiver, characteristics of Fiber Optics Cable, different types of Modulation / Demodulation techniques and PC to PC communication via fiber link using USB interface. It should also be able to demonstrate various Digital Communication Techniques via Fiber Optic link. Study of Eye pattern and experiment of BER measurement. The individual kit should contains following items: Numerical Aperture measurement jig, Mandrel, Fiber Cables, Microphone, Headphone. Set of Patch Cords, PC-PC communication Software. Eye pattern and BER measurement module, Power Supply & USB to serial converter (2nos). Hardware Specifications : Transmitter : 2 nos., Fiber Optic LED having peak wavelength of emission 660 nm & 950 nm (Optional LASER source) Receiver : 2 nos., Fiber Optic Photodetector, Modulation Techniques: AM, FM, PWM. Drivers : 1 no. with Analog & Digital modes AC Amplifier : 2 nos. Clock : Crystal controlled Clock 4.096 MHz. PLI detector : 1 no. Comparator : 2 nos. th Filters : 2 nos. 4 order Butterworth, 3.4 KHz cut-off frequency Analog Band Width : 350 KHz Digital Band Width : 2.5 MHz	3	50,000/- approx per kit	1,50,000/-

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Function Generator : 1 KHz Sine wave (Amplitude adjustable) 1 KHz Square wave (TTL) Voice Link : Fiber Optic voice link using microphone & speaker (built in) PC-PC Communication : USB Baud Rate : 19200 Switched Faults : 4 in Transmitter & 4 in Receiver Fiber Optic Cable : Connector type standard SMA Cable Type : Step indexed multimode PMMA plastic Core Refractive Index : 1.492 Clad Refractive Index : 1.406 Numerical Aperture : Better than 0.5 Acceptance Angle : Better than 60 deg. Fiber Diameter : 1000 microns Outer Diameter : 2.2 mm Fiber Length : 0.5m & 1m Test Points : 50 nos. Inter connections : 2 mm sockets Dimensions (mm) : W 326 D 252 H 52 Weight : 2.4 Kg approximately Power Supply : 110 - 220 V, $\pm 10\%$, 50 / 60 Hz Power Consumption : 4.5 VA approximately o Operating Condition : 0-40 C, 80% RH

Documentation:

a. Hardcopy Manuals:

Operating instruction manual and Circuit description manual covering the entire curriculum offered under fiber optic communication trainer should be supplied along with it.

b. Interactive softcopy manual:

Softcopy manual should include animated representation of complete courseware with clear representation of block diagrams and sample pre-captured waveforms. Optional softcopy manual management facility should be provided which should have facility to print the completed experiment file with details like aim, objective, equipments, procedure, observations and conclusion along with student details like branch, division, roll no. and date on which experiment carried out.

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