



DEPARTMENT OF APPLIED OPTICS AND PHOTONICS

**University of Calcutta**

Tender No.: AOP/LE/RC/19-20

Dated: 02/01/2020

Quotations in sealed envelopes are invited from reputed parties for supply of the following two items for communication laboratory of the department.

1. **Fiber optic communication trainer kit (Quantity: 1 No.)** with following specification.

Transmitter: 2 LEDs – one in visible and other in IR

Receiver: 2 photo detectors – one photodiode and other photo detector with TTL logic output

Modulation techniques: Digital communication with pulse code modulation (PCM) and Manchester coding / decoding technique

PRBS generator :16-bit switch selectable - clock : 32 KHz, 64 KHz, 128 KHz

Bit error rate measurement : 10-bit counter

Time division multiplexing, 16 channels (64 Kbits/Sec)

Voice PCM: 2 channels voice PCM with telephone handsets

FWHM spectral width: 100 nm

PC to PC communication facility with RS-232 Port Type  
with necessary fiber-optic cables.

2. **Fiber optic power meter (Quantity: 2 Nos.)** with following specifications.

Wavelength (nm): IR (multiple range) suitable for fiber optic communication training purposes

Measurement range (dBm):-70 ~ +10

Resolution (dB): 0.01

Complete quotation (of all items, not parts) with necessary documents (like PAN, GST Certificate, Trade License, etc) should be addressed to

**Head, Department of Applied Optics & Photonics Technology Campus, JD-2, Sector -III,  
Salt Lake, Kolkata-700 106**

and submitted within 7 days from the date of publication of this tender document.