

**Indian Institute of Technology Kanpur**  
**Department of Electrical Engineering**

**Ref No. EE/SERB/PKP/2015**

**Date: 3rd February 2015**

Sealed quotations are invited for the following equipments. The quotations should reach us by 15th February 2015. Please send the quotations to

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You can email the soft copy of quotations to [serbqkd@gmail.com](mailto:serbqkd@gmail.com) on or before 12th February 2015

Sl. No	Item description (including test equipment, components, materials etc.)	Qty
1	Single-photon counting module (C-band, TEC cooled, NEP = $1\text{pW/Hz}^{1/2}$ or better) with accessories (power chords, software, etc)	2
2	Avalanche photodiodes Part No. CMC 264-339769-101	2
3	Avalanche photodiodes Part No. NR8360JP-BC	2
4	EDFA gain module (C-band, +35 dB or better gain small signal gain, Max power output: 10 mW or better) along with accessories	2
5	Laser diode driver with TEC controller, maximum supply current 500 mA, bench top module, accessories--power chords, cables, connectors, software etc must be included.	1
6	Laser driver (up to 500 mA) and TEC controller along with Laser diode mounts (butterfly packaged LD)	2
7	Standard single-mode fiber G.652 <ul style="list-style-type: none"> <li>• 5 km spool with FC/PC connectors</li> <li>• 25 km spool with FC/PC connectors</li> <li>• 100 km spool with FC/PC connectors</li> </ul>	One each
8	Scanning FP spectrum analyzer module (C-band, FSR 10 GHz) + control box for spectrum analyzer	1
9	PZT based single-mode fiber stretcher module, 600-1625 nm wavelength range, 2 rad/wavelength/volt or lower, Total delay ~ 0.5 ps, FC/PC connectorized	1
10	RF gain block with Max output power 1 W <ul style="list-style-type: none"> <li>• 2.5 GHz central frequency</li> <li>• 5.2 GHz central frequency</li> </ul> Or a broadband (2-5 GHz frequency range) single gain block	Two each
11	FPGA board X6-1000M with Xilinx Virtex XC6VVSX475T FPGA, power supply, all relevant cables (USB, PCI Express, Ethernet etc.)*	2
12	Analog to Digital Converters (2.5 GSPS or better) with board interfaceable to X6-1000M FPGA board	2
13	Digital to Analog Converters (2.5 GSPS or better, 8-bit) with board interfaceable to X6-1000M FPGA board	2

14	LM3940 3.3V Voltage regulator (TO263 Package)	2
15	LT3482 70V Voltage regulator (16 lead plastic QFN package)	2
16	ADN2880 Transimpedance Amplifier	2
17	ADA4817-2 OPAMP (16 lead LFCSP package)	2
18	RF Connectors/adapters and adapters <ul style="list-style-type: none"> <li>• 1.85mm V-type female and male</li> <li>• 3.5 mm SMA female and male,</li> <li>• 1.85 mm GPO female and male</li> </ul>	<ul style="list-style-type: none"> <li>• 4 each</li> <li>• 12 each</li> <li>• 4 each</li> </ul>
19	RF cables GPO (SMP) female jack to SMA male jack, length=50 cm	4

\*Quote a different FPGA board to support Ethernet interface if necessary.

**Note:** All fiber-optic components/modules must be connectorized with FC/PC connectors.

1. Maximum education discount, if any should be offered.
2. Validity of quotation should be at least for 60 days.
3. Prices should be on CIF and FOB separately (if imported).
4. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection)
5. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.

*Deep Kumar*  
3/2/15