Call for tenders

Reference No: EE/PK/DST QEC

Tenders are requested for the following items with description given below. Please quote your best offer, terms and conditions of payment, delivery of goods etc. If you are a distributor, please be prepared to include a proprietary certificate or authorized dealer certificate from the original equipment manufacturer. The specifications given below are not tight. Better alternatives are also accepted. Final decision in this matter rests with the purchase committee.

Quotation should be first sent via email to <u>pradeepk@iitk.ac.in</u>. A hard copy, in a sealed envelope, may be sent to the following address: Dr. Pradeep Kumar K ACES 325B, Dept of EE IIT Kanpur Kanpur-208016, India

Last date to receive quotations via email: April 21, 2012 Last date to receive hard copy: April 24, 2012

Component	Specification	Qty
3 dB coupler	Center Wavelength 1550nm	4
	Connector Type FC/PC	
	Fiber pigtailed	
	2x2 port coupler	
Spartan 3E Kit	Clocks: 50 MHz crystal clock oscillator	1
	Memory:	
	128 Mbit Parallel Flash	
	16 Mbit SPI Flash	
	64 MByte DDR SDRAM	
	Connectors and Interfaces:	
	Ethernet 10/100 Phy	
	JTAG USB download	
	Two 9-pin RS-232 serial port	
	PS/2- style mouse/keyboard port, rotary encoder with push	
	button	
	Four slide switches	
	Eight individual LED outputs	
	Four momentary-contact push buttons	
	100-Pin expansion connection ports	
	Three 6-pin expansion connectors	
	Display: 16 character - 2 Line LCD	
Optical Isolator	Wavelength Range: 970 - 990 nm	2
	Isolation: 33 - 38 dB	
	Max Power: 2 W CW	
	Fiber pigtail, FC/PC connector	
WDM pump coupler	Operating Wavelength : 980/1550 nm	2
	Isolation (Min): 19 dB	
	Wavelength Bandwidth : ±10.0 nm	
	Directivity : 50 dB	
	CW Power (Max): 300 mW	
OFS HNLF	HNLF PM module	1(1Km
		spool)

SSMF	Operating Wavelength: 980 - 1600 nm Mode Field Diameter: 4.2 ± 0.5 μm @ 980 nm, 6.8 ± 0.5 μm @ 1550 nm Cladding Diameter: 125 ± 1.5 μm Coating Diameter: 245 ± 15 μm Cutoff Wavelength: 920 ± 30 nm Short-Term Bend Radius: =6 mm Long-Term Bend Radius: =13 mm Maximum Attenuation: =3.5 dB/km @ 980 nm Numerical Aperture: 0.20	(5km)1 (10km)1 (25km)1
Attenuator	2dB,5dB,10dB attenuator Fiber Connector FC/PC Operating Wavelength 1240 - 1620 nm Return Loss >55 dB Maximum Power Capability 1 W Polarization Dependent Loss (PDL) <0.1 Db	5 each
Laser Mount	Butterfly laser mounts	4
Fiber Bragg grating	Center wavelength: 1550nm 3dB bandwidth range: 5 GHz Center wavelength accuracy: +/-0.3nm Reflectivity: 0.05~0.95 Insertion loss: 0.1~0.2dB	2
Circulator	Wavelength(nm): 1470-1610 Insertion Loss (dB): 0.7 Channel Peak Isolation (dB, @1550nm): >50 PMD(ps): <0.1 Power handling(mW): 300	2
Inline Polariser	C-band operation Insertion Loss<0.05 dB Return Loss>65 dB Extinction Ratio >40 dB	2
Piezoelectric Crystal Fiber and Driver	Electrical Connection: 0.5 meter cable Fiber Connections: 1 meter bare fiber leads Standard Fiber: SMF-28* Fiber Diameter: 250 micrometer Minimum Fiber Bend: 50 mm (Diameter) Fiber Coil Length: ~ 20 m Max. Fiber Stretch: ~ 4.5 mm	1
EDF 10m	Operating Wavelength: C Band Saturation Power near 1530nm: 0.18mW Numerical Aperture: 0.23 Clad Diameter: 125um Core-Clad concentricity: <0.3um Coating Diameter: 245um Peak Absorption near 1530nm: 6.0 dB/m Peak Absorption near 980nm: >3.0 dB/m	1
Power Meter	Compatible Sensors: Photodiode, Thermal & Pyroelectric Optical Power Range 100 pW to 200 W Optical Energy Range 3 µJ to 15 J Sensor Wavelength Range: 185 nm - 25 µm Display Refresh Rate: 20 Hz Bandwidth DC : 100 kHz Photodiode Sensor Range 50 nA - 5 mA Thermopile Sensor Range 1 mV - 1 V Pyroelectric Sensor Range 100 mV - 100 V	2
Filter	Tuning Range: 3000 to 4000 MHz Passband VSWR: 1.5:1	2

	Passband: 3000 to 4000 MHz 3 db Bandwidth: ≈1% of the Tuned Center Frequency Notch Depth: 40 dB minimum Passband Insertion Loss: 0.5 dB maximum	
SMA/SMB Male/Female	RF connectors	10
High Frequency Divider	7.5 GHz bandwidth Maximum PFD frequency of 120 MHz Divide ratios of 8, 16, 32, or 64 2.7 V to 3.3 V power supply	5
3dB RF Coupler	Frequency 2.6-5.2 GHz Average Power 4 W VSWR 1.25:1 Package Type Module with Connector Connector SMA	5
VCO	Frequency range* 5 - 8.4 GHz Output power, over all* 14-19dBm	5
IQ modulator (RF)	50-MHz TO 6-GHz	2
DC Power Supply	5V	5