

## INVITATION FOR QUOTATION

TEQIP-II/2017/btec/Shopping/2

12-Oct-2017

To,

### Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Advance fibre optic research platform light runner	2	45	BTKIT, Dwarahat	Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
  - 3.1 The contract shall be for the full quantity as described above.
  - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
  - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

**Delivery and Installation - 100% of total cost**

**Satisfactory Acceptance - 0% of total cost**

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **15:00** hours on **30-Oct-2017** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **yes**
14. Testing/Installation Clause (if any) **yes**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,  
Dwarahat Almora Pin-263653 Uttarakhand
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

#### Annexure I

Sr. No	Item Name	Specifications
1	Advance fibre optic research platform light runner	<p>Item name Item 1) Advance fiber optics research system ,( light runner ) , with accessories Light Runner TECHNICAL SPECIFICATION</p> <p>1. Equipment should be Compact &amp; Portable with capability to perform below must be enclosed in metallic enclosures ,experiments. 2. Equipment should have Integrated LCD, Touch Screen facility, GUI Software &amp; inbuilt User manual (Help) to control &amp; perform experiments. 3. Interactive Software Control should provide adequate information about how-to-do and what-to-expect for each experiment. 4. Equipments should have cutting edge technologies like EDFA, OTDR, and OADM. 5. Equipment should provide exposure to concepts of OTDR and Eye Pattern Analysis. 6. Equipment should have built in Oscilloscope. 7. All the necessary accessories to carry out the experiments (such as Laser Sources, DSO, Power Meter, Fiber Spools etc.) should be supplied along with it. TECHNICAL SPECIFICATIONS: LASERS: 1510, 1530, 1550 and 1570 nm • Pigtailed DFB Laser • Output Power 1mW • Spectral width 50 pm 980 nm Laser • Pigtailed Laser •</p>

		<p>Output Power 50-60 mW 850 nm Laser • Pigtailed Laser • Output Power 2 mW InGaAs &amp; Silicon Photodiodes • Pigtailed Photodiodes • High Speed PIN diodes Variable Optical Attenuator • Attenuation Range 1 - 40 dB • Resolution 0.5 dB 3 Port Circulator • Isolation 15 dB • ion Loss 0.5 -1 dB 3 dB Coupler • Splitting Ratio 50:50 • ion Loss of each Channel 1 dB 4 Channel WDM Mux &amp; DMux • Pass Channels at 1510, 1530, 1550 and 1570 nm • Channel spacing 20 nm 980/15xx Mux • 30 dB isolation @ 1550 nm • 15 dB isolation @ 980 nm Fiber Bragg Grating • 30 dB isolation @ 1550 nm • 15 dB isolation @ 980 nm LIST OF EXPERIMENTS Attenuation in Optical Fiber Dispersion in Optical Fiber Wavelength Division Multiplexer Fiber Bragg Grating and Optical Circulator Erbium Doped Fiber Amplifier Diode Laser Characterization PIN Photodiode Characterization Analog and Digital Fiber Optic Link Time Division Multiplexing Wavelength Division Multiplexed Link Optical Amplification in WDM Link Adding and ping of Channels in WDM Link Optical Time Domain Reflectometer Bit Error Rate &amp; Eye Pattern Analysis Power Budgeting Rise Time Budgeting List of Accessories</p> <p>Following are the accessories that are included with the Light Runner 1. Digital Multimeter 2. Head Phone 3. Microphone 4. Power Meter (Mini) 5. Single Mode Fiber Spool 1KM, 2KM, 3KM 6. Mains Power Cable 7. BNC cables 8. RS 232 (DB9) Cable Female-Female} 9. SC-SC SM fiber patch Cord 10. SC-SC Adaptor 11. Dispenser Bottle 12. Tissue Papers 13. Cleaning Sticks 14. Connector Cleaning Spray 2) Advance Optical Fiber Trainer ? The fiber board has facility of 2 transmitters with 660 and 850 nm LEDs ? The System must be with FPGA based driver for TDM and PCM experiments ? On board 2 Receiver with photo detector ? Receiver 01 - Photo transistor with responsivity of <math>80\mu\text{A} / \mu</math> ? Receiver 02 - Photo detector with TTL logic output ? Facility for Manchester coding /decoding technique. ? Digital noise generator source output. ? 16 bit switch able PRBS generator ? On board Clock generator - 32 KHz, 64 KHz, 128 KHz ? Bit error rate measurement with LED indication ? Facility for 8 channels Time division multiplexing, (64 Kbits/Sec) ? One 8-bit user able markers in nate frames for Frame marker ? The trainer has PC to PC communication data ? Baud rate – Maximum 115.2Kbps Baud ? Standard Fiber optic cable – 1.8 mm plastic optical cable ? Test Points to observe signals ? Interconnections - 2mm banana sockets ? On board power supply. ? The complete system will supplied</p>
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		<p>with connecting leads, power chord, study and experimental user manual. 3) Optical Fiber communication Trainer The system must be FPGA based with all comm. solutions Transmitter: 2 No, Fiber Optic LED having peak wavelength of emission 660 nm &amp; 950 nm Receiver : 2 Nos, Fiber Optic Photo detector Modulation Techniques : 1 AM/FM2. PAM/PWM/PPM Drivers: 1 No. with Analog &amp; Digital modes AC Amplifier : 2 Nos. clock : Crystal Controlled Clock PLL detector: 1 No. Comparator: 2 nos. Filters : 2 nos. 4 order Butterworth. Analog Band Width: 100KHz or above Digital Band width : 1 MHz or above Function Generator: Sine Wave (amplitude adjustable) Optical Power Meter, 5 meter fiber cable (650/660/950nm) 10 meter fiber cable (650/660/950nm)</p>
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**FORMAT FOR QUOTATION SUBMISSION**

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To:

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Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No: \_\_\_\_\_