

Department Optoelectronics, University of Kerala, Kariavattom,
Thiruvananthapuram, Kerala, India - 695581

TENDER -PI.A1/OTDR

Dated 15.03.2017

E-Tender Notice

Department of Optoelectronics, University of Kerala, Kariavattom, invites open tender through e-Procurement (two cover system) from the Original Equipment Manufacturers or their Authorised Dealers for the supply, installation and commissioning **Optical Time Domain Reflectometer (OTDR) measurement setup**

Last date and time for submission of tender online	25.03.2017 At 5.30 p.m.
Last date and time for submission of tender offline	25.03.2017 At 5.30 p.m.
Date and time of opening of tender	30.03.2017 AT 11.00 a.m
Hard copies of the sealed tenders to be submitted to the office of	The Registrar, University of Kerala,Senate House campus, Palayam Trivandrum- 695 034, Kerala Tel: +91-471-2305631, 2386202 (O) e-mail: regrku@gmail.com
For technical details contact	Dr. V.P. Mahadevan Pillai, Head,Department of Optoelectronics, e-mail: vpmpillai9@gmail.com Phone No. 9400946909

For further details logon to www.etenders.kerala.gov.in

TECHNICAL SPECIFICATIONS of Optical Time Domain Reflectometer (OTDR) measurement setup

Make: Yokogawa/Anritsu/EXFO/JDSU/HP.

Specifications

1. Type of fibre :single mode
2. Wavelength :1310nm ,1550 nm, 1490nm, 1625 nm
3. Dynamic range
:≥34 dB at 1310nm
:≥32 dB at 1550 nm
measured at SNR =1 with maximum pulse width of 20 μs
4. Pulse width :3ns to 20 μs
5. Read out resolution
:Vertical - minimum 0.001 dB
:Horizontal - minimum 2 cm
6. Sampling resolution :≤2 cm
7. Event dead zone :≤1 m for all wavelength at pulse width defined by the manufacturer
8. Refractive index : 1.3 to 1.7 (adjustable in steps of 0.00001)
9. Data sampling points : ≥1,28,000
10. Data storage
Internal : ≥1000 waveforms
External :SD card ,USB storage
11. File Format :
 - i. Write : CSV, SOR, SET, PDF, JPG, BMP
 - ii. Read :SOR, SET
12. Measurement : Distance, loss, return loss, Loss between any two arbitrary points.
13. Distance Unit : meters / kilometers
14. Display size :≥ 6 inches diagonally of resolution around 800x600 or better.
15. 15.Electrical interface : Unit interfcaeX1, Module InterfaceX1, USB 2.0X3(TypeA-X2, Type B (Mini) X1, ETthernet-1G
16. Optical port :standard port with Universal connector adapters suitable for SC,FC,LC

Necessary relevant soft wares to read and analyse the OTDR traces and any other necessary accessories for the smooth working of the system should be supplied

Warranty : 3 years

General Conditions:

1. The tender shall be submitted in the two bid viz. Technical Bid and Financial Bid. Only those qualified in technical bid will be eligible for participating in financial bid. A presentation regarding the technical specification and item to be supplied shall be done before the technical evaluation committee if requested.
2. The bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization From and Indian agents of foreign principals, if any, who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
3. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures. **Venders should provide clear brochures/data sheets about the equipment and it's working. Also include adequate proof for the claim regarding the performance.**
4. **Reference:** Names of Institutes with contact person and telephone/ email where similar equipment supplied by you in India [Preferably South India] shall be mentioned in the bid.
5. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
6. The price should be inclusive of all taxes, duties, transportation, insurance, installation etc. Nothing extra will be paid in addition to the quoted rate. Any amount in Indian

rupees for installation, commission, labour, spares, service etc shall be entered in item 2 of BoQ.

7. Payment Terms: 90% payment shall be made through irrevocable LC on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation commissioning and acceptance of the equipment.
8. Validity of tender: Tender submitted shall remain valid at least for 120 days from the date of opening the tender. Validity beyond 120 days, from the date of opening of the tender shall be by mutual consent.
9. **Every tenderer should submit an Earnest Money Deposit (EMD) or equivalent Bank Guarantee valid upto the installation of the equipment.**
10. **Every tenderer should submit Tender fee of Rs.....**
11. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training (one week) should be made at the Department of Optoelectronics, University of Kerala, Kariavattom campus, Trivandrum without extra cost. University of Kerala will provide customs duty exemption certificates if required.
12. Service facility: Supplier should mention their details of service setup and manpower in Thiruvananthapuram who are responsible for after sales support.
13. The model number, make, and a printed literature of the product shall submit positively.
14. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
15. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

16. If any component is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.

Documents to be Uploaded

- 1 Signed Compliance Matrix
- 2 Detailed Technical Brochure
- 3 Under taking of support for next 10 Years
- 4 BoQ
- 5 DD/Hard copy of Bank Guarantee if opted

**The Registrar,
University of Kerala,
Senate House campus, Palayam , Trivandrum- 695 034, Kerala.**