



Request for Proposal for the Supply of Optical Power Meters for the KFON Project

Project Overview:

The Kerala Fiber Optic Network (KFON) project aims to provide high-speed internet connectivity across the state. As part of this initiative, we require the supply of Optical Power Meters to ensure the effective measurement and monitoring of optical signals within the network.

Requirements:

Item: Optical Power Meters

Quantity: 15 Units

Technical Specifications:

1. Power Measurement Range:

The optical power meter should be capable of measuring optical power in the range of -70 dBm to +10 dBm, suitable for fiber optic communication systems.

2. Wavelength Range:

It should support a broad range of wavelengths, ideally between 800 nm and 1700 nm, including standard telecom wavelengths of 1310 nm, 1490 nm, 1550 nm, etc.

3. Visual Fault Locator (VFL):

A built-in **2mW laser light VFL** should be integrated into the device to locate breaks, bends, and other faults in fiber cables. The VFL should be capable of outputting red laser light at 650 nm and should be visible for up to 10 km.

4. LAN and RJ45 Cable Tester:

The device should feature a built-in LAN tester that is capable of testing Ethernet cables (RJ45), including identifying continuity, short circuits, miswiring, and open circuits.

5. Digital Multimeter:

It should include a digital multimeter for basic electrical testing, such as voltage, current, and continuity testing. The multimeter should have an easy-to-read digital display and be suitable for field use.

6. Display:

The device must feature a high-resolution, backlit digital display capable of showing clear and precise measurement results under various lighting conditions.

7. Auto-wavelength Detection:

The optical power meter should support automatic wavelength recognition to reduce errors during fiber testing.

8. Connector Compatibility:

The optical power meter must support universal connectors like FC, SC, ST, and LC, ensuring adaptability for various fiber systems.

9. Battery Life:

The device should offer extended battery life, supporting at least 30-40 hours of continuous operation on a single charge. It should also include a low battery indicator.

10. Durability and Portability:

The device should be rugged, shock-resistant, and lightweight for ease of use in the field. It should come with a protective carrying case.

11. Operating Temperature Range:

The optical power meter should function effectively in a wide temperature range, from -10°C to +50°C, to accommodate various field conditions.

12. Calibration:

The device should come pre-calibrated, with a calibration certificate included, to ensure accuracy and reliability.

Proposal Submission:

We kindly request you to submit your proposal, which should include the following details:

1. Unit price of the optical power meters.
2. Total cost for 15 units.
3. Delivery timeline.
4. Warranty period.
5. Payment terms.

Please submit your proposal by email to: am.it@kfon.in

Submission Deadline: 01/11/2024 – 4PM

Delivery Information:**Delivery Address:**

KFON Ltd, 2nd Floor, Jeevan Prakash, LIC Building,
Pattom P.O, Thiruvananthapuram - 695004,
Kerala, India.

GST No: 32AAHCK2529G1ZS

Payment Terms:

1. **100% Payment** will be made after successful delivery and verification of the items supplied.
2. Verification includes ensuring that all units meet the specifications provided in this RFP and are in good working condition.

Terms & Conditions:

1. All proposals must be in compliance with the specifications outlined above.
2. The supplier is responsible for ensuring the on-time delivery of the products to the address mentioned.
3. KFON reserves the right to accept or reject any or all proposals without assigning any reason thereof.

We look forward to receiving your competitive proposal.