Request For Quotations

for

Supply of OTDR Machines

Ref. No. APSFL/Spares / OTDR/342/2019-20/01, Dated 24/11/2020

Andhra Pradesh State FiberNet Limited
NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station,
Vijayawada - 520013
Web address: www.apsfl.in
Email address: apsfl@ap.gov.in

Andhra Pradesh State FiberNet Limited (APSFL) invites sealed quotations from the prospective agencies for supply of twenty (20) OTDR machines.

The following are the specifications for the required splicing machines:

Features

- Single-/dual-/tri-wavelength versions with 1310/1550 nm and in-service 1625 or 1650 nm wavelengths
- Light, compact, hands-free design includes 5" high-visibility outdoor touch screen
- Integrated CW light source
- PON optimized to test through 1x128 splitter ratio with FTTH-SLM
- Built-in PON/XG-PON power meter (1490/1550/1578 nm)
- Automated fiber inspection and macrobend detection with pass/fail analysis software
- 3G/4G connectivity via USB, Bluetooth®/WiFi options
- 3-year warranty
- All-day battery life.

Specifications (typical at 25°C)

General	
Display	5-inch capacitive color touch screen (12.5 cm)
Display resolution	800 x 480 W VGA
Interfaces	2x USB 2.0 ports, 1x mini-USB 2.0 port, built-in Bluetooth and WiFi (optional, dongles also available)
Storage	10,000 OTDR traces typical
Battery	Rechargeable Lithium-polymer battery, up to 20 hours of operation1
Power supply	AC/DC adapter, input 100-250 V AC, 50-60 Hz; 2.5 A max, output 12 V DC, 25 W
Electrical safety	EN60950 compliant
Size (HxWxD)	175 x 138 x 57 mm (6.9 x 5.4 x 2.24 in)
Weight (battery included)	Approx. 0.9 kg (1.98 lb)
Operating/storage temperature	Operating: –20 to +50°C; storage: –20 to +60°C
Humidity (noncondensing)	95%
OTDR	
Laser safety class (21 CFR)	Class 1
Number of data points	Up to 256,000 data points
Display range	0.1 km to 260 km
Sampling resolution	4 cm
Distance accuracy	(±1 m) ± (sampling resolution) ±(1.10–5 x distance), excluding group index uncertainties
Attenuation resolution	0.001 Db

Attenuation linearity	±0.04 dB/dB	
	SmartOTDR 100A	**SmartOTDR 100B**
Central wavelength2	1310/1550/1650 nm ±20 nm	1310/1550/1625/1650 nm ±20 nm
RMS dynamic range3	37/35/32 dB	40/40/41/41 dB
Pulse widths	5 ns to 20 µs	3 ns to 20 µs
Event dead zone4	1.35 m	0.9 m
Attenuation dead zone5	4 m	2.5 m
Splitter attenuation dead zone	Not available	45 m after 15 dB splitter loss
CW Light Source		
Output power level6	–3.5 dBm	
Stability long term (8 hr)7	±0.05 dB	
Built-in Power Meter (optional)		
Operating mode	270, 330, 1 kHz, 2 kHz, and TWINTest	
Power level range	0 to –55 dBm	
Calibrated wavelengths	1310, 1490, 1550, 1625, and 1650 nm	
Measurement accuracy8	±0.5 dB	
Built-in Visual Fault Locator (optional)		
Wavelength	650 nm	
Emission mode	CW, 1 Hz	
Laser class	Class 2 per EN60825-1 and FDA21 CFR Part 1040.10 standards	
Built-in PON/XG-PON Power Meter (E118FA65PPM version)		
Wavelengths	1490/1550 nm; 1490/1578 nm	
Measurement ranges	1490 nm: –35 to +5 dBm; 1550/1578 nm: –35 to +23 dBm	
Measurement accuracy	±0.5 dB	

(To be submitted by agency on original letterhead)

To Date:

The Managing Director,
Andhra Pradesh State FiberNet Limited,
3rd Floor, NTR Administrative Block,
Pandit Nehru Bus Station,
NH – 65, Vijayawada – 520013

Subject: Quotation for OTDR machines for AP Fiber Grid Project

S.No	Description	Qty	Unit cost (Rs.)	Total Cost (Rs.)
1.	OTDR Machines	20		
Total in INR (words)				

Note

- Unit Rate shall include all duties, levies, insurance, transport and other charges excluding Taxes.
- If there is a discrepancy between words and figures, the amount in words shall prevail.

APSFL reserves the right to

1. Modify, reduce or increase the quantity requirements to an extent of the tendered quantity
2. APSFL may place the repeat order based on the requirement.
3. APSFL reserves its right to withhold any amount for the deficiency in the service aspect of the ordered items supplied.

(Signature, name and designation of the authorized signatory)

It is requested to submit the quotation to the APSFL corporate office, Vijayawada on or before 4:00PM, 01.12.2020