



APSFL
Andhra Pradesh State FiberNet Ltd.

Request For Quotations

for

Supply of 2F ADSS cable on Rate Contract

Ref. No. APSFL/Spares Requirements/Cable/342/2021/02, Dated 12.01.2021

Andhra Pradesh State FiberNet Limited

NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station,

Vijayawada - 520001

Web address: www.apsfl.in

Email address: apsfl@ap.gov.in

1. Scope of Work

APSFL has established state-wide high speed optical fiber network infrastructure covering approximately 23,000 kms route across the 13 districts of Andhra Pradesh through 2471 PoPs and 12 DHQs being operated and controlled from Network Operations Centre (NOC) setup in Vishakhapatnam. APSFL is providing triple play services (voice, iptv and data) on top of this network through GPON ONTs at last mile.

Through this Request for Quotation, APSFL is planning to procure 2F ADSS cable for restoration to provide uninterrupted services to End users and to Progress the New Connectivity.

The Equipment procured through this RFQ, should seamlessly provide the specified technical specifications to provide services to APSFL. The successful bidder shall ensure to supply and Delivery of **2500 Kms of SUPPLY OF 2F ADSS CABLE ON RATE CONTRACT** with span length of 65m with wind speed of 100 kmph as per the specifications given below at Central warehouse / Designated Location in Andhra Pradesh within **two weeks** from the date of Purchase Order.

2. Delivery & Documents

Delivery of Equipment shall be made by the selected vendor strictly in accordance with the specifications of the this document or in case of deviations, the specifications approved and accepted by APSFL. Corresponding documentation shall be submitted to APSFL along with delivery. Delivery locations shall be intimated in Purchase order.

3. Payment Terms

- 90% payment shall be released after successful delivery of the equipment, submission of invoice, delivery challan and all related documents duly certified by APSFL Authority and completed in all aspect.
- 10% payment shall be released on completion of Warranty Period i.e one Year or Upon submission of Additional Bank Guarantee (1 Year Validity) equivalent to 10% of Purchase order value.

4. Terms & Conditions

- Selected Vendor has to provide on-site warranty for all the equipment supplied for a period of 1 Year. The fiber to be supplied and delivered at the designated location is to be in compliance with the specifications mentioned.

Sealed Quotations are to be submitted as per the Annexure 1 – Price Bid Form before the last date i.e 20/01/2021 11:00 Hrs. The Quotations will be opened on 20/01/2021 at 16:00 Hrs. Price Bid Format and Technical Specifications are enclosed below.

Annexure I – Price Bid Forms

(To be submitted by Bidder on original letterhead)

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

Date:

Subject: Request for Quotation for SUPPLY OF 2F ADSS CABLE ON RATE CONTRACT with span length of 65m with wind speed of 100 kmph for AP Fiber Grid Network

SNo	Description	UoM	Qty	Cost in INR
1.	SUPPLY OF 2F ADSS CABLE with span length of 65m with wind speed of 100 kmph	Kms	2500	
Total in INR (words)				

Note

- Unit Rate shall include all duties, levies, insurance, transport and other charges excluding Taxes.
- **The Bidders offering the Lowest Cost (Exclusive of Taxes) will be considered for award of Purchase Order.**
- If there is a discrepancy between words and figures, the amount in words shall prevail.
- **Order will be placed based on the actual requirement from time to time during the Period of One Year.**
- Quoted rates are valid for the period of One Year.

APSFL reserves the right to

1. Modify, reduce or increase the quantity requirements to an extent of the mentioned 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)

Annexure II – Minimum Tech Specifications

1. OFC Specifications

2F Single Mode Uni-tube Single Embedded FRP ADSS Optical Fiber Cable
(Span: 65m & Wind Speed: 100Km/Hour)

PRODUCT INFORMATION			
Fibre (Shape: Round)			
Single Mode Optical Fiber	Fiber ITU.T - G.652D		
Maximum Cabled Fiber Attenuation dB/Km	1310nm : < 0.36 & 1550nm : 0.36 & 1550nm : < 0.23		
PMD Cabled Individual Fiber (1310 & 1550 nm)	≤ 0.3 ps/√Km		
PMD LDV (1310 & 1550 nm)	≤ 0.2 ps/√Km		
Loose Tube			
Filling Gel	Thixotropic gel to prevent water ingress in loose tube		
Fiber Per Tube	2 Nos.		
Tube	1 Nos.	Thermoplastic Material (PBT)	
Core			
Central Strength Member	Fibre Reinforce Plastic to provide tensile strength and ant buckling properties		
Water Blocking Material	Water Swellable Yarns are added to prevent water ingress inside cable core		
Core Wrapping	Binder Yarns or PP Tape with Water Swellable Tape		
Cable			
Rip Cords	2 Nos.	Polyester Based Yarns	Applied Below Outer Sheath
Peripheral Strength Member	Aramid Yarns are added to meet the required tensile strength		
Stripe Making	Two yellow colored stripe making diagonally opposite 3 mm Minimum		
Outer Sheathing	UV Proof Black HDPE		1.5 mm Minimum Thickness

OPTICAL FIBRE CABLE PERFORMANCE

MECHANICAL				ENVIRONMENTAL	
Maximum Tensile Strength 3000 N at 0.25% Fiber Strain				Temp. Performance	
Repeated Bending	20D,30Cycle	Impact Load	50 N, 0.5 m	Installation	-10°C to +60°C
Bending Test	20D, 4Turns, 10Cycles			Operation	-20°C to +70°C
Crush Resistance	1000N/100x100mm	Torsion	±180°	Storage & Transport	-20°C to +70°C
Water Penetration	1m head, 3m samples, 24 hrs			Drip Test	30 cm, 70°C, 24 hr
<i>All tests shall be carried out as per IEC Standards. Change in attenuation shall be < 0.05dB/Km</i>					
LOADING CONDITIONS					
Span Length	65 m	Excess Load			
sag%		Wind Speed	100 Km/ Hour		
Installation Sag	1.0%	Ice Loading	Zero		
Operation sag	1.5%				
COLOUR DETAILS					
Optical Fibre Color	Blue, Orange.				
Loose Tube Color	Blue.				
Outer Sheath Color	Black				
PHYSICAL PARAMETERS					
Cable Diameter (mm, Nominal)	4.0X6.4 ± 1.0	Cable Wt. (Kg/Km)	25±10	Cable Length :	2 / 4 Km ± 5%
				Order Tolerance :	±5 %
				Short Length :	MAX 5 %
PRINTING DETAILS					
Printing details (White - Hot Foil Emb.)	APSFL, G652D 2F ADSS Laser Symbol				
	Year of Manufacture Length Code Meter Mark, Drum Number				

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