

Tender for supply of Optica cable

Ref.N°20087/07.08.2020

I. Introduction

1. About Neterra

Neterra is an independent telecom operator for standard and complex services and projects in Europe for more than 20 years – www.neterra.net

2. Project Name: "Construction of Passive fiber-optic telecommunication infrastructure on the territory of Sofia"

3. A contract for Supply of optical cable for Stage 1 of the project - Construction of core network layer will be signed with the selected contractor.

4. Contacts:

4.1. Technical contact – Dimitar Kesov, dkesov@neterra.net, +359 887 57 54 26

4.2. Commercial contact – Daniel Genchev, pg@neterra.net, + 359 886 407 388

4.3. Version

Version	Date	Description
1.0	07-08-2020	Valid version

II. General information for the project

5. Neterra is building a passive fiber-optic infrastructure on the territory of the city of Sofia in order to expand its current coverage. The network consists of the following main elements:

5.1. Core layer - main / trunk routes of optical cables, serving as the backbone of the network and connecting all primary points.

5.2. Distribution layer - optical cables, providing coverage from the core network to all areas with concentration of Subscribers.

5.3. Access layer – last mile optical cables providing connectivity between the distribution layer and the Subscribers.

III. Optical cable and delivery requirements

6. Application: underground, duct

7. Cable type – please provide two options:

7.1. Loose tube

7.2. Slotted core/ribbon fibers

8. Number of fibers: 192

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9. Fiber Type: G.652D
 10. Quantity: 36 000 meters
 11. Life of cable: The minimum expected life of the cable shall be 25 years
 12. Delivery in portions is accepted. The first part of 10 000 meters of cable must be delivered not later than 2 weeks after the end of the tender.

IV. Offer requirements

13. The offer must contain at least the following information:
 - 13.1. Terms of delivery, DDP, Bulgaria, village of Stolnik (42° 43' 21.8"N 23° 36' 59.5"E);
 - 13.2. Price for production and delivery (DDP Stolnik);
 - 13.3. Delivery term;
 - 13.4. Warranty details;
 - 13.5. Technical specification of the proposed cable and its fibers, which shall include at least the required information in Annex 1;
 - 13.6. Payment terms;
 - 13.7. All prices must be in EUR;
 - 13.8. Bid evaluation method - lowest price 90% and best term 10%.
14. The following shall be considered an advantage in the evaluation of tender:
 - 14.1. The usage of telecommunication services provided by Neterra;
 - 14.2. A sample of the offered type of cable, even if it is not with the same number of fibers.
15. The submission of bid can be done by email: pg@neterra.net and through the Auxionize system.
16. Deadline for submission of bid - no later than 12:00, on 28.08.2020

Annex №1 TO OPTICAL CABLE SUPPLY TENDER

Requirements for minimum information for the supplied optical cable

Provide detailed information of the cable and the fibers, including at least the following parameters:

Category	Description
General information	Cable Type
	Product Number
	Code according to EN 60794-1-1
Design of the cable	Cable cross section color diagram
	Description of all elements with dimensions and materials
	Cable marking
	Number of tubes and colore code
	Number of fibers in tube and color code
Environmental Conditions	Temperature Range: storage, installation, operation
	Water penetration
	Rodent Protection
Mechanical Specifications	Outer Diameter
	Weight, kg/km
	Nominal Temporary Tensile Strength(NTTS)
	Nominal Operating Tensile Strength(NOTS)
	Crush Resistance
	Min. Bend Radius Installation
	Min. Bend Radius Operation
Optical characteristics	Fiber vendor/producer
	Fiber type
	Fiber core diameter
	Cutoff wavelength
	Maximum attenuation: 1310nm and 1550nm
	Polarization Mode Dispersion (PMD)
Delivery information	Supplied lengths
	Drum type – dimension, material, Gross weight