SEVENTH FRAMEWORK PROGRAM
RESEARCH INFRASTRUCTURES

GRANT AGREEMENT 212891


Enabling
Virtual
Access to
Latin-American
Southern
Observatories

http://www.evalso.eu

| | |
|---|---|
| Work Package: | **SA1 – Link Upgrade** |
| Deliverable No: | **SA1.1-1.5-103**<br><br>**Technical Project** |
| Date: | **2010/08/19** |
| Revision: | **Draft** |

# Table of Contents

# 1) Introduction

Then we show you the points that are included in the technical scope

## 1.1 Definitions, Acronyms, and Abbreviations

| | |
|---|---|
| (F)DR | (Final) Design Review |
| CfT | Call for Tender |
| KoM | Kick-off Meeting |
| MoM | Minutes of Meeting |
| MOP | (Republica de Chile) Ministerio de Obras Publicas (Chilean Ministry for Public Work) |
| N/A | Not Applicable |
| OCA | Observatorio Cerro Armazones |
| SLA | Service Level Agreement |
| SoW | Statement of Work |
| T0 | Contract Start |

## 1.2 Reference documents

EVALSO-SA1-1.1, “Technical Specification for the procurement of the EVALSO optical infrastructure”).

## 1.3 Overview

The next points are the technical scope of our proposal

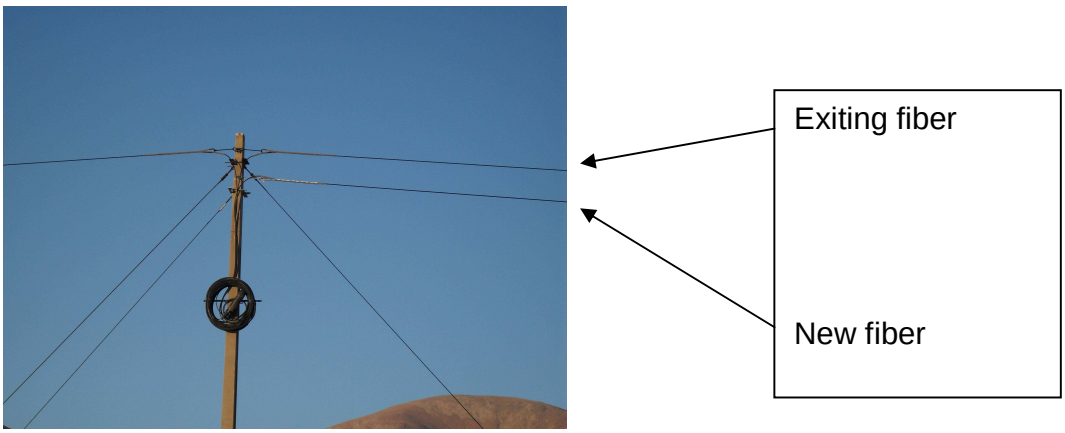
### 1.3.1 Point 1 B: Black Fiber between La Varilla and EVALSO Antofagasta

Point 1b: Fort this service we used existent equipment to complete the optical section to Antofagasta cross connect, that is:

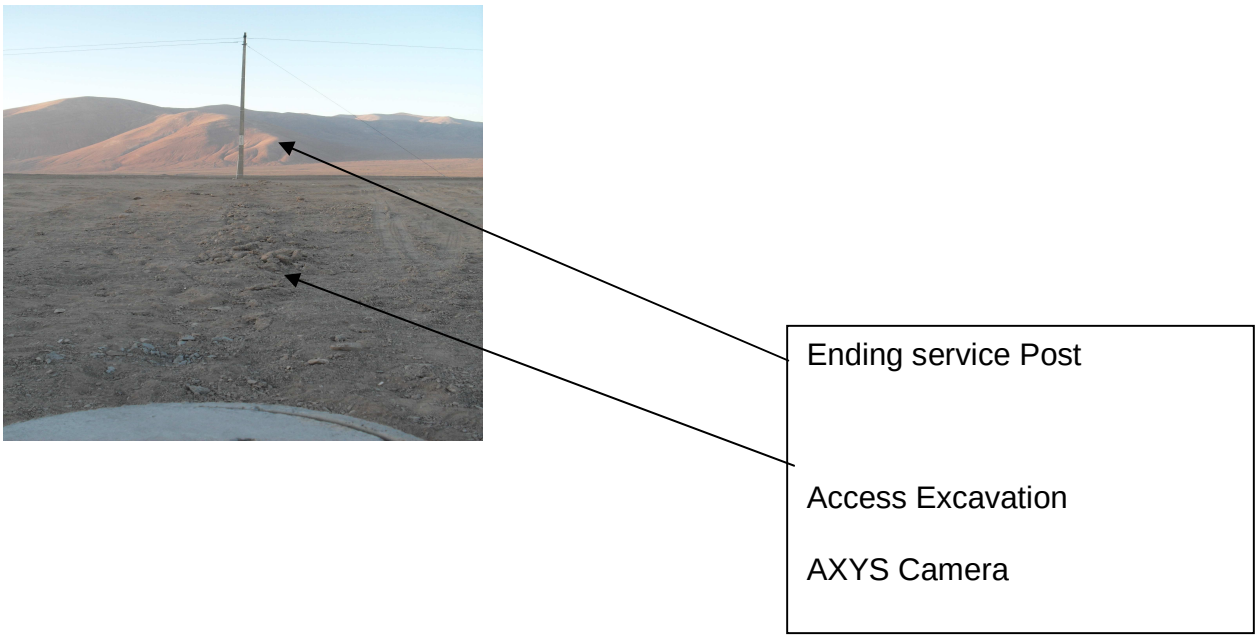
A couple of black fiber that meets with requirements in technical specifications

### 1.3.1.1 Then we show the tended cables

Aerial Junction with a new tended




Beginning End: La Varilla




Ending Point: Transmission room Antofagasta


Optical Measure from Antofagasta Juntion to La Varilla

AFTA II - CRUCE EVALSO P 19.pdf

AFTA II - CRUCE EVALSO P 17.pdf

### 1.3.2 EVALSO and TELCO POP Antofagasta Equipment Hosting)

he MOVISTAR TELCO PoP housing is available to install Project EVALSO Equipment and the necessary accessories to distribute traffic using LAMDA (OUT2) seeing at the point 2 of technical specifications

The point 3 reference is definite like:

•Rack (Standard rack 19")
- o 40 U of capacity
- o Uninterrupted power supply 3KW
- o Air Conditioning
- o 24x7 access accord RFC-EC Document
- o Remote on/off equipments

A connection panel to connect balck fiber from Point 2, 1B, black fiber UCN


**Localitation**

- Site: Telefónica POP Antofagasta
- Address: 160, Uribe second floor
- City: Antofagasta
- Specific Location: Transmission Room

**Antofagasta Housing has:**

- Generator sets
- UPS
- Power distribution boards
- Security systems

### 1.3.3 Black Fiber – North Catholic University

This a section of black fiber to connect the Antofagasta Movistar Telco PoP Housing to UCN Site.

**Optical Fibers**

The fiber local Access is 1+0 and the norm used is G.7652 singlemode. The local section of fiber are no longer that 7 Km from the client site to Movistar PoP.

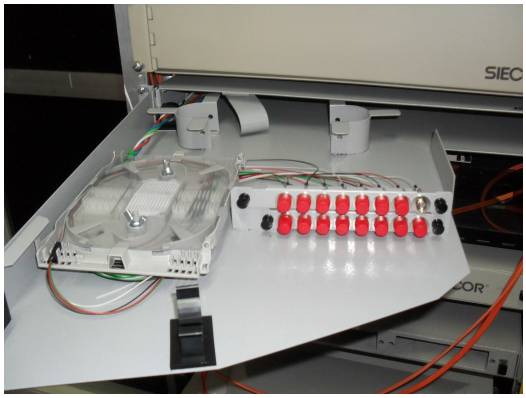
### 1.3.3.1 Patch Panels and connectors

The fiber optic ODF connection panels of each point will be:

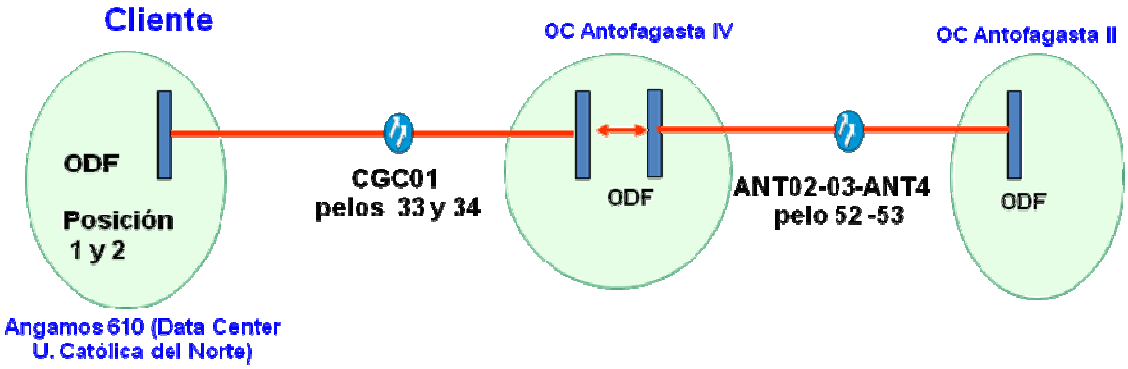
- We will use standard connection panels, 19” in a rack, 1 U of maximum tall, including the wrap cable with 12 FC-UPC connections.
- The connectors will be probe and we will attach the probe documents

**Connectors**

The connectors that will be use at (O)DF optical ends, will be FC-UPC. And jumpers FC-UPC / LC 3 m will be use in these connectors.



North Catholic University of Antofagasta: Network diagram. Service Number: C 282510




**measures**

Attenuation:

2°Window: 2.75 db
3°window: 2.0 db

Total length: 5.000 meters

Network equipments

Single mode cable
Fiber Type: 9/125 micro meters
PKP Cover
FC-UPC Connectors
Optical Rack distributor FC-UPC