



# Passive Network Assessment

UNHCR Egypt – IT Unit

## 1. Introduction:

The Office of the United Nations High Commissioner for Refugees in Egypt is inviting qualified companies specialized in passive network (cabling) installations and maintenance in Egypt to conduct an in-depth data network assessment for its three premises in Cairo, Egypt.

## 2. Background:

UNHCR offices in Egypt have an established structured data cabling network within the locations outlined below:

<i>Premises</i>	<i>Address</i>
Zamalek Office	5 Michel LotfAllah St., Zamalek, Cairo
Main Building	17 Mecca El-Mokarrama, 7 <sup>th</sup> District, 6 October City, Giza
RSDT Building	44A St., 8 <sup>th</sup> District, 6 October City, Giza

UNHCR Egypt aims to assess the current passive infrastructure in order, with no commitment, plan for corrective actions/modifications.

## 3. Scope/ToRs of work:

- 3.1. Contractor to screen existing structured data cabling in the 3 locations which are outlined as below, including uplinks, access racks and server room in each location:
  - Zamalek Office: **480 ports**, more or less.
  - 6<sup>th</sup> October Main Building: **336 ports**, more or less.
  - 6<sup>th</sup> October RSDT Building: **243 ports**, more or less.
- 3.2. Contractor to carry out an in-depth testing using a fluke instrument, with reports, for all data networks according to the industrial standard.
- 3.3. Contractor to provide new labelling for all racks, patch panels and wall outlets. Labelling scheme to be provided by UNHCR.
- 3.4. Contractor to provide as-built schematic diagrams for the entire network including uplinks. Laying (path) of the cables is required for the access rack uplinks to the server room.
- 3.5. Contractor to provide as-built documents (Excel) mapping the patch panel with the switch-port.

3.6. Contractor to provide assessment reports:

- All reports should be in soft-copy format.
- Comprehensive narrative report for all necessary corrective actions, in-addition to any new installation/modification changes requested by UNHCR according to operational needs, in-accordance with the highest industrial standard.
- Report on the required BOQ, including availability in the local market, and specifications for all actions mentioned in the report above.
- Provide cost estimation to actions mentioned above for budgetary purposes.

3.7. Contractor to plan and embark on the scope of work within a maximum of 1 week following the receipt of the official PO from UNHCR.

3.8. Contractor to closely coordinate outage, if any, with UNHCR to avoid any interruption of services for the operation.

3.9. Contractor to submit all reports and documents mentioned in the scope of work within 2 calendar weeks.

#### 4. Technical Evaluation Criteria (Pass or Fail):

4.1. Contractor must be specialized in passive data cabling for a continuous minimum 3 years to date.

**Contractor to share supporting documentation.**

4.2. Contractor's assigned engineer/project manager must have a minimum of 3 years expertise in passive cabling (copper or fiber).

**Contractor to share CV for project manager.**

4.3. Contractor has previously completed installation or maintenance of a passive cabling project (copper or fiber) for a minimum of **1000 ports**.

**Contractor to share supporting documentation.**

4.4. Contractor owns testing/fluke instrument and provides:

**Contractor to share datasheet / specifications of instrument that will be used to conduct the scope of work mentioned above, performing the follows:**

- Cable Types: UTP, STP, FTP.
- Supported Tests: Wiremap, length, cable signal performance (Measures crosstalk and impedance and compares against appropriate limits), tone generator for path, Ethernet port detection, identification and PoE voltage.

4.5. Contractor owns digital labeling machine and provides:

**Contractor to share datasheet / specifications of digital labeling machine that will be used to conduct the scope of work mentioned above, performing the follows:**

- Self-laminating tape for CAT6 cable identification.
- Strong adhesive tape for rack, patch panel and equipment identification.
- Flexible-ID tape for ethernet cable and other cables identification.