

## **Section 3a: Scope of Works, BOQs and Drawings**

### **Construction of retaining walls for the River side of Houwayzik – Bar Elias**

#### **1. BACKGROUND**

Aiming at addressing the current needs caused by the Syrian refugee influx, UNDP has undertaken a conflict-sensitive needs assessment through the Maps of Risks and Resources (MRR) methodology with the objective of producing municipals participatory action plans for local impact projects. The MRR facilitates the dialogue and collaboration between local stakeholders within a common process for the identification of risks, needs and available resources in order to find the proper solutions. Municipal Working Groups were formed involving local authorities, civil society from the public and private sector in order to ensure participation, inclusiveness and ownership of the community as a whole.

Bar Elias down town used be - every year and every winter- subject to flooding & run-off from Houwayzik water course resulted in drastic consequences to residential and commercial properties extended along both sides of the river.

The increasing number of Syrian refugees' has increased flooding risk hazard on erected overpopulated informal settlements and residential quarters along the water course which became the solid waste and waste water disposal.

The project aims at protecting the river surrounding community from flooding & run-off disaster through cleaning and removal of obstacles from watercourse, lining its bottom & riversides with reinforced concrete to protect neighbourhood from flooding risk hazards. In addition the project aims at increasing public awareness in the communities and especially on the level of the municipality for water course management governance.

#### **2. OBJECTIVES**

Those ToRs were developed to commission a qualified contracting company to undertake in Bar Elias, the construction of sewage network.

#### **3. SCOPE OF WORKS**

Construction of reinforced concrete bottom and retaining walls: 360m

##### **Activities:**

- Cleaning , removal of debris/ obstacles from water course;
- Lining the water course bottom with reinforced concrete ;
- Pouring retaining walls for both river side's ;
- Pouring machinery access

#### **4. DURATION OF WORKS**

The contracting company is expected to commence the works immediately after Contract signature. The overall execution timeframe for the whole project spread over a period of **4 months**, effective from contract signature date. Extensions, if deemed necessary, can only be granted through mutual agreement between UNDP and the contracting company. Urgent cases that could justify delays of works are mainly due to security reasons, in case of any conflicts in, or for extreme bad weather conditions.

In case of default on the part of the Company in carrying out an instruction of the Engineer, the Employer shall be entitled to employ and pay other companies to carry out the same and all expenses consequent thereon or incidental thereto shall be borne by the Company and shall be recoverable by the Employer and may be deducted by the Employer from any money due or which may become due.

#### **5. STANDARD OF PERFORMANCE**

The Contractor shall perform the required services and carry out his obligations under this Contract with all due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in performing such type of activities and with professional engineering and contracting standards recognised. He shall observe sound management, and technical engineering practices, and employ appropriate advanced technologies and safe and effective equipment, machinery, materials and methods. The Contractor shall operate and maintain the equipment and machinery involved in the implementation activities in accordance with the relevant laws, standards, regulations and legislation, as well as the requirements under the Contract, and the manuals and guidelines as provided by the manufacturers and suppliers of the equipment and machinery.

##### **Site Safety:**

The Contractor shall be responsible for implementing strict safety measures on site in view of the type of works being implemented; the Contractor shall provide and erect protection items required by site conditions or as requested by the Engineer to protect persons, onsite and offsite property, as required and as supplementary to such items that have been left in place; ascertain legal and other requirements.

The Contractor shall maintain protection in place until work is complete and danger of damage has ceased; at such time as approved by the Engineer, remove protections.

##### **Contractor's Resources:**

The Contractor shall utilise all necessary resources, manpower, machinery and equipment etc. in order to perform the required works in a proper, safe and timely manner. The Contractor should employ, to the maximum extent possible, the necessary labourer (skilled and/or unskilled) from within the project area.

#### **6. MANAGEMNT MODALITIES**

An engineer will be assigned by UNDP to directly supervise the works of the Contractor. The engineer will be directly reporting to and seeking approval/acceptance of output from the project Manager. The

engineer will be reporting on progress of works on a weekly basis.

## **7. QUALIFICATION OF CONTRACTING COMPANY**

### Experience:

- Relevant experience in executing similar project (have completed similar project with size above 300,000 \$ in the last 5 years),
- Minimum 5 years in infrastructure projects, with size above 250,000 \$ and an annual turnover above 750,000 \$

### Resources:

- Availability of a civil site engineer to follow up on all construction works. A copy of his/her CV is required to be submitted with the offer.
- Availability of machineries (scaffolding, Formworks, Construction Tools, etc...) and workers to carry out the required works.
- Ability to store all equipment and material in a safe yard.
- Ability to operate on final full shop drawings for sewage network.
- Ability to employ workers from the area.

### Timelines and Safety:

In addition to presenting an offer that shows the previously mentioned qualifications:

- The Contractor shall present a work plan including activities and timelines.
- The contractor shall provide safety equipment to all site basis personnel:
  - Safety Helmets, Shoes, Jackets.
  - Construction Site should be closed and surrounded by a fence.
  - Workers should be provided harnesses.

## **8. ANNEXES**

- Final BOQ;
- Drawing and Details;
- Technical Specifications.