



## TERMS OF REFERENCE

### Automatic Drip Irrigation System

**Location:** Chekka North - Lebanon

**Project Title:** Eco North

**Goods to be delivered by:** 1 May 2025

**Deadline to submit:**

**Contact:** [procurement@fairtradelebanon.org](mailto:procurement@fairtradelebanon.org)

### SCOPE OF WORK

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#### 1- Summary

FTL is looking for a supplier to provide an Automatic Drip Irrigation System for an agricultural site in Chekka, Lebanon.

#### 2- Objective

The project aims to enhance environmental health in Lebanon by promoting sustainable agricultural practices and income generation through circular economy principles. It seeks to educate communities in North Lebanon on the ecological use of natural resources and build resilient livelihoods for vulnerable populations. Additionally, the project focuses on training teachers to raise awareness among children about climate change and sustainable agriculture. Through these efforts, the project supports long-term environmental well-being and economic stability in the region.

#### 3- Technical Specifications of the Automatic Drip Irrigation System

##### Controllers & Automation

- 1 pc: ESP-SM3 3 Station Module (Rainbird)
- 1 pc: IESP-4ME Modular Controller 4 Station Outdoor (Rainbird)
- 1 pc: ESP-SM6 6 Station Module (Rainbird)

##### Valves & Accessories

- 12 pcs: 1" HVF Valves with Flow Control
- 12 pcs: 10" Valve Boxes
- 168 pcs: 16x16 Plastic Valves (Blue)
- 3 pcs: Plastic Valve 3/4"
- 1 pc: Plastic Valve 1 1/4"

##### Pumping & Filtration

- 1 pc: Disk Filter Mini T 1 1/2"-120 Mesh
- 1 pc: 15 HP Pump (European made)

- 1 pc: Strainer 1 1/2"
- 1 pc: Pressure Control
- 1 pc: Venturi Fertigation System with Accessories

#### Pipes

- 200 m: 40mm Pipe – PN16
- 15 m: 32mm Pipe – PN16
- 75 m: 32mm Pipe – PN6
- 75 m: 20mm Pipe – PN4
- 5 m: 25mm Pipe – PN4

#### Drip Irrigation

- 9 rolls: Q-Drip Pro 16-4-25-1.0mm – 400m each
- 500 pcs: Ground Hooks 15 cm
- 168 pcs: Barbed Male Adaptor 16 x 1/2"
- 25 pcs: Barbed Connector 16 x 16

#### Fittings & Accessories

- Terminal Adaptors, Saddles, Tees, Nipples, Elbows, and Adaptors in various sizes (full list above)
- 12 rolls: Large Teflon
- 20 rolls: Teflon Nelson 12mm – 10m

#### Cables

- 300 m: Control Cable
- 300 m: Electric Cable Cover

#### **4- Requirements & conditions**

The service provider is required to deliver all items to the agricultural site in Chekka along with workers/helpers available to assist with loading and unloading products, as and whenever needed.

#### **5- Company qualification**

The company must have the following valid legal documents:

- Commercial Circular
- Fiscal Certificate of Incorporation at the Ministry of Finance
- VAT Certificate of Registration if applicable
- ID of company's authorized representative(s)

#### **6- Evaluation**

- The quotation's evaluation process will consider following with assigned weights:
- Financial ..... 50%
- Technical ..... 40%
- Reputation & Reference Check ..... 10%
  
- **Payment Terms:**
- Payments will be made through bank cheques
- Payment will be made 20 business days after last delivery and submission of final invoice.

**7- How to apply**

- Detailed offer
- Acknowledgment letter of payment modality
- All legal documents to be submitted via email to: [procurement@fairtradelebanon.org](mailto:procurement@fairtradelebanon.org)

Only selected candidates will be contacted