

Introduce sustainable and eco-friendly solid waste management solutions through empowerment of Youth: Lebanese and Syrian

“Youth For Peace” A Project Funded by World Vision office in the USA

Terms of reference (ToR) “Design and Construction Engineering”

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1. BACKGROUND INFORMATION

1.1. Beneficiary country

Lebanon

1.2. Contracting Authority

World Vision Lebanon

1.3. Country background

Lebanon is regionally the country most impacted by the Syria crisis hosting more than 1 million Syrian refugees in the region. Within Lebanon, the Bekaa has been the area that the majority of arriving refugees have favoured. Based on results from the World Bank – the area around Zahle has been identified as the district ‘most impacted’ by the refugee arrival based on original population estimates and the existing rates of poverty pre-crisis. This heavy influx of people puts a strain on public services and has contributed to political and social tensions. The Public schools are completely overwhelmed, jobs, notably low skilled, Rents have increased dramatically, the use of collective buildings or unfinished buildings for shelter and the tented settlements springing up, the pressure on the systems and structures within the Bekaa Valley have reached breaking points.

Among deficient public services waste management and street lighting are amid the most acute sources of tension between the communities. On one hand, aggravated by the Syria crisis, solid waste management SWM is becoming such a prominent challenge that has now led to a national crisis and regular violent demonstration against government. In fact, Lebanon is currently facing a national waste crisis: the influx of refugees has doubled the quantity of solid waste generated in several areas, mainly those with high concentration of refugees causing severe challenges for solid waste collection and disposal. The growing environmental impact of the increased waste load is particularly visible in terms of polluting surface water, ground water, and marine eco systems, together with increasing soil pollution.

1.4. Current situation in the sector

World Vision (WV) has been operating in Lebanon since 1975, and in the Bekaa valley since 1999. WV has scaled up its operations in Lebanon, particularly in the Bekaa valley in response to the Syria crisis since 2012 through the provision of food vouchers, hygiene kits and WASH projects to the refugees in the ITS locations. With the ever increasing flow of refugees and the crisis stretching into the coming years, there is increasing recognition that agencies need to focus on supporting longer term solutions to structural concerns in order to better serve all those impacted by the crisis including the hosting communities. In attempt to improve the sustainability of WASH investments, WV is strategically pursuing WASH investments that will benefit both the Lebanese host-community and the Syrian refugees. This improved efficiency in WASH investment is in line with the 2015-2016 Lebanon Crisis Response Plan (LCRP), which guides Humanitarian actors within Lebanon.

Due to the absence of a modern legal framework on decentralization, a lack of appropriate human and financial capacities and a poorly performing fiscal system, the quality and accessibility of public services in Lebanon is often quite low, and affects both waste management and safety situation in the country, as a consequence, almost all the solid waste generated in Lebanon is collected by public or private haulers. World Vision will build on already existing positive copying mechanisms and introduce recycling at the ITS level, as a viable option to respond to waste management gaps in the Bekaa. In addition, World Vision will build Qabb Elias capacity by constructing a sorting plant that will also benefit the surrounding areas and will be fully owned and run by Qabb Elias Municipality.

2. OBJECTIVE, PURPOSE & EXPECTED RESULTS

2.1. Overall objective

The overall objective of this project is to contribute to mitigate the impact of the Syrian refugee crisis on the Lebanese host communities by alleviating tensions related to health, safety and environmental hazards by introducing sustainable and eco-friendly solid waste management solution through empowerment of both Lebanese and Syrian Youth.

World vision intends to award contract that seeks the services of a professional consultant (engineering firms) with substantial experience in design and solid waste sorting facility for 70 Tonnes/day, supervision and construction management for solid waste issues.

The consultant shall support World Vision (WV) in expanding design and study and installation equipment sorting plan machines for the Qabb Elias Municipality. (Note: the municipality is responsible of the civil external construction work.)

2.2. Purpose

The purpose of this contract is to hire a consultancy firm to support World Vision in Design and BOQ preparation, Equipment procurement phase and installation and training of plant operations staff. The consultant should coordinate with the Municipality in the construction phase and shall provide engineering services as detailed in the below purpose:

- Prepare specification details for all operational equipment (list of the equipment, generator, etc.).
- Perform a field investigation and data collection for the area of operations including all needed information for the project implementation.
- Prepare and develop an Environmental Impact Assessment and get the required approvals from the Ministry of Environment.
- Prepare priced BOQ and detailed specification for equipment machines.
- Prepare the most economical design for the sorting facility process during the implementation for civil work and specification.
- Submit the design for review and approval of World Vision
- Once the design is approved, proceed with the procurement and implementation of the required machines and mechanisms as per the specification of the design.
- Specify a training schedule and train plant operations staff so that they are able and qualified to use operate the plant, “note that: the training must be addressed to the workers and managers”.
- Design and study for the future composting area with BOQ and detail.
- Submit a price for each step/deliverable within this Scope of Works.
- Provide a SAT “site acceptance test” (testing and commissioning) for each piece of equipment.
- Provide a building owner's manual with additional information from the designers.

3. LOGISTICS AND TIMING

3.1. Location

Qab Elias is a Municipality in Zahle District, in eastern Lebanon. Qab Elias is 15 kilometers from Zahleh and 45 kilometers from the Lebanese capital Beirut. Its average elevations are 950 meters above sea level.

Location for landfill:



Figure -1- GPS Location : 33°45'31.77"N ; 35°51'3.60"E

3.2. Start date & Period of implementation of tasks.

The Hired consultancy firm is requested start the work January 2017 and finish by march 15th 2017

4. REQUIREMENT

4.1. Office accommodation

Office accommodation for each consultancy firm hired by the Engineering consultancy firm working on the contract is to be provided by the consultancy firm.

4.2. Facilities to be provided by the consultancy firm

The consultancy firm shall ensure that experts are adequately supported and equipped. In particular, it must ensure that there is sufficient administrative, secretarial and interpreting provision to enable experts to concentrate on their primary responsibilities. It must also transfer funds as necessary to support their work under the contract and to ensure that its employees are paid regularly and in a timely fashion.

4.3. Equipment

Any equipment related to this contract which is to be acquired by the World Vision Lebanon must be purchased by means of a tender procedure, also consultancy firm has to submit a warranty 3 years for the machines with regular maintenance.

Our recycling sorting equipment has the keys to success; high volume output, high purity sorting and intelligent motor control systems available. WV provide various recycling sorting equipment for all types of material recovery facilities, such as:

- Heavy Duty Pulley Driven Straight Conveyors

- Heavy Duty Chain Belt Conveyors
- Heavy Duty Chain Belt Inclined Conveyor
- Heavy Duty Pulley Driven Troughed Belt Conveyor
- Overhead Magnetic Separator
- Ballistic Separator
- Bag Openers
- Stationary Trommel Screen for organic waste.....

5. PAYMENT TERMS

- 5.1.** WV will pay the purchase price via bank wire transfer to Seller’s bank account attached.
- 5.2.** The consultancy firm shall submit a performance bank guarantee of 10% of the total contract amount to be returned after completion of works.
- 5.3.** Payment will be made according to the following schedule, provided that WV has received an appropriate original invoice from consultancy firm along with a Technical / handover Report from the budget holder stating that the consultancy firm has fulfilled his/her duties after 1 month of submitting the invoice:

Schedule of Payment	Amount in USD	Date
Payment 1		Down payment 20% after Signing the Agreement and presenting the down payment bank guarantee and the performance bank guarantee.
Payment 2		30% Upon delivery of 50 % of completed works in section 2.2 and endorsement of WV engineering unit.
Payment 3		40% Upon completion of works in section 2.2 and endorsement of WV engineering unit, the down payment bank guarantee and the performance bank guarantee will be returned to the supplier.
Payment 4		10% three months after finished the contract

- 5.4.** All invoices and other necessary documents shall be sent to the attention of the following WV representative.

6. DELIVERY

The consultancy firm shall start the delivery of goods / services immediately upon signing this Agreement, giving the supplier 10 days’ period from request, unless this Agreement has been terminated sooner in accordance with its provisions. The penalty for late delivery by the consultancy firm will be .5% of the Order sum per day late. To not exceed 10% of the total amount.

7. TERMINATIONS

- 7.1.** WVI may terminate this Contract at any time should the anticipated funding for this project from its donor(s) be eliminated, delayed or reduced or for any other reason. In the event of such a termination, consultancy firm will be paid according to the payment terms specified herein for any Goods actually shipped or Goods effectively performed prior to the termination date.
- 7.2.** This Agreement may be terminated immediately by either party in the event of a breach of the provisions herein by the other party, in addition to whatever remedies or damages are provided under the governing law.
- 7.3.** This Agreement may be terminated by either party in the event of any intervening. "Force majeure" (natural disaster, war, etc..) recognized under the governing law. In the event of such a termination, the consultancy firm will be paid approved fees and expenses for goods/Goods supplied/performed in accordance with this Agreement up to the date of termination.
- 7.4.** In the event that none of the above clauses apply and any of the two parties decides to terminate this Agreement for a valid reason, a one-month notification period to the other party is mandatory.

8. ASSIGNMENT AND SUB-CONTRACTING

- 8.1.** The consultancy firm shall not assign or sub-contract this Agreement or any part thereof without the prior written consent of the Buyer. Any such permitted sub-contracting shall not relieve the Supplier of its obligations under the Agreement and shall not create any contractual relationship between the Buyer and the Supplier's sub-contractor(s).
- 8.2.** The consultancy firm shall not assign or sub-contract any Purchase Order made under this Agreement without the prior written agreement of the Buyer.
- 8.3.** The consultancy firm shall safeguard the Buyer's interest by incorporating the terms and conditions of the Purchase Order into any permitted assignment or sub-contract.

9. MONITORING AND EVALUATION

9.1. Definition of indicators

The consultancy firm work will be measured in line with the below standard indicators:

Time: Adhering to the agreed-upon schedule/work plan in delivery process

Quality: Adhering to the minimum professional quality of each equipment

9.2. To be submitted before contracting:

- Commercial Register.
- Portfolio of company
- Names, titles and CVs of the Engineers that will be part of the design and supervision team. Any change of these key personnel will require the approval of World Vision.
- list of previous similar projects executed along with their amounts and three references.

9.3. Submits Later:

- Health and safety measures to protect workers, visitors and surrounding residents during construction, operation, closure, and environmental monitoring activities associated with implementation of the sanitary landfill.
- Price for each step/deliverable within this Scope of Works.
- detailed work plan including the delivery date of each step/deliverable within this Scope of Works, at all phases.
- After the completion of the works, Consultant shall review and submit, within a period of 1 month, the As-Built drawings as well as his invoices related to the project.