

## Call for Proposals

Conducting an Environmental Impact Assessment for the  
Establishment of a Solid Waste Sorting Facility for Recyclable Waste  
in Three Villages in Bekaa – Lebanon

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| Organization:     | ANERA                                                                                                                                                           |
| Assignment Title: | Conducting an Environmental Impact Assessment for the Establishment of a Solid Waste Sorting Facility for Recyclable Waste in Three Villages in Bekaa - Lebanon |
| Locations:        | Majdal Anjar, Temnine Faouqa, and Mansoura                                                                                                                      |
| Duration:         | 90 days per location                                                                                                                                            |
| Contract Type:    | Consultancy                                                                                                                                                     |
| Closing date:     | March 1, 2018 – 4.30pm                                                                                                                                          |

### I. INTRODUCTION

ANERA Lebanon, funded by UNHCR, is implementing a one-year project “Community Based – Solid waste management”, funded by UNHCR, and in partnership with three municipalities in Bekaa: Majdal Anjar, Temnine Faouqa and Mansoura. The project includes a plan to establish a sorting facility for recyclable waste in Majdal Anjar and potentially in the other two villages, Temnine Faouqa and Mansoura.

In the framework of this project, and in line with the regulations requested by the Ministry of Environment in Lebanon, ANERA is inviting interested certified consulting firms to submit proposals to conduct an “Environmental Impact Assessment (EIA)” for Majdal Anjar, Temnine Faouqa and Mansoura sorting facilities.

The objective of this Study is to assess the impact of the proposed Project on the environment (physical, biological and socio-economic). ANERA aims to use this Study to guide the Design and Construction works pertaining to the sorting facilities construction projects.

### II. PROJECT BACKGROUND AND RATIONALE

Despite the extensive efforts that the Government of Lebanon has exerted to organize the Solid Waste Management (SWM) system and to improve the treatment and disposal of the waste nationwide, it is acknowledged, that up to this date, there is no well-defined national solid waste management policy in the country. In 2015, the Solid Waste Management crisis became visible to the community, especially in Beirut and Mt. Lebanon. As a result, mountains of garbage were piled haphazardly across the streets and at the outskirts of residential areas.

Bekaa hosts Lebanon’s largest borderline with Syria. It has been a high vulnerable locality even before the influx of refugees, with an original population size of over 565,800, and a refugee population of over 357,000. The area’s population pressure on the scarce services and resources available is very high. Majdal Anjar, Temnine Faouqa and Mansoura municipalities have specifically voiced rising tensions and concerns regarding the local municipalities’ ability to provide solid waste management services to their

constituents. Concurrently, the municipalities exhibited interest in improving their current SWM system, which relies mostly on dumpsites without any sort of pre-treatment or sorting of wastes.

#### **Majdal Anjar**

Majdal Anjar is located in Central Bekaa, 55Km away from Beirut. Majdal Anjar is situated close to the Syrian Border with a host community population of 20,000 people, and a Syrian refugee community of 18,800 people.

A municipality assessment that was conducted in 2017 estimated the quantity of waste currently collected in Majdal Anjar to be between 40-45 Tons per day.

#### **Temnine Faouqa**

Temnine Faouqa is located in Baalbak-Hermel, northern Bekaa, 60Km away from Beirut, with a host community population of 3,000 people, and a Syrian refugee community of 1,863 people.

The estimated quantity of municipal solid waste generated in Temnine el Faouqa is between 3.8-4.8 Tons per day.

#### **Mansoura**

Mansoura is located in West Bekaa, 60 Km away from Beirut, with a host community population of 5,000 people and a Syrian refugee community of 2,525 people.

The estimated quantity of municipal solid waste generated in Mansoura is between 6-7.5 tons per day.

The overall objective of the “Community based- Solid waste management” project, aims at upgrading the SWM system in three villages in the Bekaa area. The intervention includes community mobilization towards sorting at source as well as improving the infrastructure of the municipal SWM system, including the establishment of sorting facilities for recyclable waste.

### **III. OBJECTIVES:**

The assignment shall be planned and implemented with the aim of achieving the following objectives:

1. Assess and validate the construction plans for the sorting facilities
2. Identify the impacts on physical environment including land, water, and air and suggesting mitigation measures.
3. Identify the impact on biological environment including flora, fauna and natural habitat and suggesting mitigation measures.
4. Identify the impacts on socio-economic environment in the vicinity of the proposed landfill site and suggesting mitigation measure.
5. Identify site management/mitigation measures that should be implemented to minimize any potential impacts from the generation, handling, storage and disposal measures/routings of waste, in accordance with the current legislative and administrative requirements

#### IV. EXPECTED RESULTS:

As a result, the contractor is expected to conduct an Environmental Impact Assessments (EIA) for the Solid Waste Management sorting facilities in Majdal Anjar, Temnine Faouqa and Mansoura. The facilities will be used to sort recyclable material.

The conducted assessment package should be completed and approved by the Ministry of Environment.

#### V. SCOPE:

This assignment shall be carried out with an objective of identifying the environmental impact of construction, operation, maintenance and post closure activities of the proposed sorting facility by preparing the Environmental Impact Assessment Studies for solid waste sorting facilities to validate all documents related for its design and construction; and ensure alignment with all the requirements of the MoE.

The consultancy will include the following Activities:

**Task 1:** Conduct field visits to the municipality as needed;

**Task 2:** Review available documents for the construction and coordinate with the hired Consultant engineering company;

**Task 3:** Organize public consultation for the discussion of the three facilities projects in accordance with the requirements of Decree No. 8633/2012 and ESIAR or LESIAR;

**Task 4:** Review and Evaluation of Legal Documents: The consultant shall outline the existing policies, legislation, acts, laws, rules, regulations and standards related to establishment of the facility at national, provincial and local levels with specific focus on:

- Environmental quality
- Cultural heritage conservation
- Safety and health
- Protection of sensitive areas
- Protection of biological species
- Siting and land use control

**Task 5:** Prepare the Environmental Impact Assessment studies for the solid waste sorting facilities, and follow up and obtain the necessary approvals to proceed with the project. In addition, the Consultant shall be available to address any comments or requests presented by the Ministry of Environment and review designs up until the ministry's approval is granted.

#### VI. EIA COMPONENTS:

The Contractor shall conduct all necessary actions to develop EIA reports comprising the following chapters and contents. The information provided below follows the requirements listed in the EIA Decree 8633 date 28/3/2012. These requirements, in addition to Decision 1/230 of 16/11/2012, are used by the MoE to evaluate EIA reports. The level of details upon which each requirement is addressed is project specific, and should be in line with the requirements of the MoE. An EIA report shall be developed for each of the three municipalities:

0. Executive Summary (to be prepared in both English and Arabic)

1. Introduction:

- 1.1. Background
- 1.2. Objectives
- 1.3. Scope of Work

2. Policy, administrative and legal framework

- 2.1. Environmental Policy
- 2.2. Legal Framework
- 2.3. Administrative and Institutional Framework
- 2.4. Environmental Standards
- 2.5. EIA guidelines

3. Description of the project

- 3.1. Location
- 3.2. Status of solid waste management in the three concerned villages as well as in neighboring villages and cities
- 3.3. Necessity/importance of the project to the local community
- 3.4. Volume and characteristics of incoming solid waste (Provided by the Hired Solid waste management consultant, the Contractor should validate its proposed methodology)

4. Description of the existing environment (baseline conditions)

- 4.1. Location
- 4.2. Physical environment (topography, geology, hydrogeology, climate, air quality, soils, etc.)
- 4.3. Biological environment (ecological context)
- 4.4. Socio-economic environment (demography, agriculture development, traffic, heritage, public health, etc.)
- 4.5. The Report shall include maps at a scale of 1/20,000 (or any other larger scale) preliminary Bill of Quantities (BOQ) specifying the quantities of materials needed for the implementation of the project. (These should be provided by the consultant engineering company).

5. Impact analysis

- 5.1. Surface and groundwater quality and surface quantity
- 5.2. Soil quality
- 5.3. Odors
- 5.4. Air quality
- 5.5. Health and safety
- 5.6. Noise
- 5.7. Landscape and visual intrusion

5.8. Socio-economic

5.9. Traffic

5.10. Others (as deemed necessary by MoE)

6. Analysis of Alternatives (sites and technologies, including do nothing scenario)

6.1. Analysis of alternative sites for the project

6.2. Comparison of the different technologies proposed (qualitative and quantitative analysis are required for highlighting advantages and disadvantages of each technology)

6.3. Selected technology must be a technology accepted by the Ministry of Environment.

7. Environmental Management Plan

7.1. Environmental Mitigation plan (should be technology/project specific)

7.2. Environmental Monitoring Plan (should be technology/project specific)

7.3. Institutional arrangements for implementation of EMP

7.4. Capacity building needs

7.5. Cost of EMP

## **VII. PUBLIC PARTICIPATION**

The Contractor should ensure that the stakeholders, including local communities and possible groups disadvantaged by the project, are involved in the project at the early stages of the EIA preparation; close coordination with MoE on this matter is recommended. Public participation should include at a minimum posting of a public announcement at the municipality where the project will be implemented for a period of 7 days; comments can be received by the municipality in a written form within 14 days from the posting date. However, and given the nature of the projects, it is recommended that at least one public meeting per target group be conducted on the 5th day from the public announcement with representatives of the local community in order to ensure that the project is acceptable and to avoid future delays in its implementation due to public opposition.

## **VIII. REPORTING AND CONTRACT PERIOD**

1. The Consultant will report directly to the Program Manager,
2. The consultant shall commence the consulting service upon the effective date of the contract notice and shall plan to complete the service within 90 days.

## **IX. QUALIFICATIONS AND EXPERIENCE REQUIRED**

- Firms should be certified by MoE to conduct EIAs;
- Firms must have an expert knowledge of the Lebanese environmental regulations and strategies,
- Key personnel proposed must have a minimum of 10 years' experience conducting EIAs and fluency in English and Arabic (reading, writing, and speaking);
- Previous experience in conducting EIA specifically for solid waste sorting facilities
- Proven track record of efficient previous performance and high quality deliverables (references required).

- Previous experience in working in Bekaa is an asset.

## **X. SELECTION CRITERIA**

The review committee will evaluate proposals based on both technical and financial factors and in accordance with the following criteria:

- **Technical:** Technical strength of the applicant's proposal in compliance with qualifications requested above,
- **Cost:** competitive pricing,
- **Time:** availability to commence work by mid-March 2018 and ability to complete the assignment within the set timeframe.

## **XI. How to Apply**

Interested consultancy firms are invited to hand-deliver their proposals at ANERA Lebanon office in Beirut at the following address: Badaro, Alam Street - Forest Building, 2nd floor. Contact person for RFP collection is Ms. Mirna Mneimneh. Office hours are 8.30am - 4:30pm from Monday until Friday.

The proposal must be submitted in the format of two separate sealed envelopes marked

1. "Environmental Impact Assessment – Technical Proposal", and
2. "Environmental Impact Assessment - Financial Proposal"

**Deadline: March 1, 2018 – 4.30pm**

**Proposals received after the deadline will not be accepted.**