



Terms of Reference for IUCN Consultancy

Title: Climate vulnerability and natural resources Assessment

Objective of the Consultancy

This consultancy has the following objective(s):

1. Conduct climate vulnerability assessment for Madaba and Karak.
2. Conduct a review of the natural resources with a focus on water, energy resources, and their relation to agriculture.
3. Identify the most vulnerable districts in Madaba and Karak governorate (Municipality level).
4. Assess community awareness of climate change impacts and water challenges in Jordan.
5. Identify opportunities to create resilience for the agriculture community against the impacts of climate change and to deal with the limited water and energy resources.

Background

Jordan's water scarcity is compounded by different pressures including climate change, population growth, and Syrian refugees' influx, which create barriers to economic development. Climate-related hazards in Jordan include droughts, extreme temperature, storms, landslides and flash floods. While these hazards are a natural occurrence in Jordan, they nevertheless pose serious constraints on development, and their intensity and frequency are likely to increase under a changing climate. Climate change is increasingly affecting vulnerable communities in Jordan, as the country simultaneously grapples with social cohesion and rapid population growth. Refugee arrival waves and the existing presence of Syrian refugees increase citizens' discontent towards local governmental entities and their ability to fairly manage shared resources such as water and land. The most affected sectors by water issues in Jordan are the agricultural sector and the labour sector, which are already impacted by the Syrian crisis and the presence of refugees.

As a result, IUCN prepared the AMER project documents "Agriculture Management to Enable Resilience (AMER)" to contribute in creating job and livelihood opportunities in the agriculture sector as well as introduce and promote sustainable agriculture practices that builds the resilience of vulnerable farmers and residents against climate change impacts. The 2 years project is implemented in Karak and Madaba governorates aiming to Enhance sustainable economic mechanisms in the agriculture and food security sector as drivers to empower Jordanian host communities and Syrian refugees in Southern governorates (Karak and Madaba).

About IUCN

IUCN is a membership Union uniquely composed of both government and civil society organisations. It provides public, private and non-governmental organisations with the knowledge and tools that enable human progress, economic development and nature conservation to take place together.

Created in 1948, IUCN is now the world's largest and most diverse environmental network, harnessing the knowledge, resources and reach of more than 1,400 Member organisations and around 15,000 experts. It is a leading provider of conservation data, assessments and analysis. Its broad membership enables IUCN to fill the role of incubator and trusted repository of best practices, tools and international standards.

IUCN provides a neutral space in which diverse stakeholders including governments, NGOs, scientists, businesses, local communities, indigenous people's organisations and others can work together to forge and implement solutions to environmental challenges and achieve sustainable development.

Working with many partners and supporters, IUCN implements a large and diverse portfolio of conservation projects worldwide. Combining the latest science with the traditional knowledge of local communities, these projects work to reverse habitat loss, restore ecosystems and improve people's well-being.

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<https://twitter.com/IUCN/>

About the Project

The project titled "Agriculture Management to Enable Resilience (AMER)" would create job and livelihood opportunities in the agriculture sector as well as introduce and promote sustainable agriculture practices that build the resilience of vulnerable farmers and residents against climate change impacts. The 2 years project is implemented in Karak and Madaba governorates aiming to Enhance sustainable economic mechanisms in the agriculture and food security sector as drivers to empower Jordanian host communities and Syrian refugees in Southern governorates, whereas the specific objectives are

SO1: Improve the living conditions of Jordanian host communities and Syrian refugees in the targeted governorates through income-generation practices related to agriculture and sustainable production methods.

SO2: Strengthen the capacity and awareness of local communities, local authorities, academic institutions, and schools in the targeted governorates regarding sustainable practices for agriculture and food security.

SO3: Improve the resilience of small farmers and breeders from host communities and Syrian refugees in the targeted governorates to climate change challenges.

Description of the Assignment

The consultant should conduct the assessment in accordance with the following key tasks:

- The Consultant should conduct a meeting with the IUCN to understand the project and to get the required documents needed to start the assignment such as the project proposal, loge framework, and any relevant documents that might needed.
- The geographical scope for this assessment is Karak and Madaba governorates.
- The consultant shall conduct a desk review and field visits to understand the context of the project in the targeted governorates (Karak and Madaba).
- Submit **inception report** to IUCN to define methodology, data collection tools, type of data, data sources, data validation, and sampling. The consultant shall consider IUCN feedback.

- Collect administrative, climate, hydrological, water resources, and energy data and reflect the data in maps. should be appeared on the municipality level.
- Conduct data collection through field visits, meetings, interviews, FGD, and key informant interviews. Consider all the objectives of this assessment as mentioned above, project proposal, project objectives, and logical framework when creating any data collection form or survey.
- The vulnerability assessment shall consider a framework using exposure, sensitivity, and adaptive capacity at the scale of the municipality. Energy resources, climate, and water resources should be considered as well.
- Submit the **final report** to IUCN and consider IUCN's feedback alongside all collected data, surveys, forms, maps, and graphs to conduct the assessment.

Duration of the Assignment

50 calendar days, From 25. April.2024 to 15. June.2024

Deliverables and Activities

The consultant will provide the following deliverables and carry out the following activities:

| Deliverable/Activity | Description | Deadline |
|----------------------|---|--------------|
| Inception report | methodology, data collection tools, type of data, data sources, data validation, and sampling | 10 May 2024 |
| Final report | Final report and data set, where the structure should be approved by IUCN | 10 June 2024 |

Payment Schedule

The Timetable below summarises the chronological order of deliverables and indicates milestones at which IUCN will pay the Consultant.

| Deliverable | Milestone payment |
|--------------|-------------------|
| 10 May 2024 | 30% |
| 10 June 2024 | 70% |

Skills and Experience

The consultant must have the following skills, education, and experience as a minimum:

- Bachelor's degree in natural resources management, water resources management, social science, environmental engineering, geomatics engineering metrology, or any relevant (Higher academic degree (master or PHD are an advantage).
- Experience in conducting survey research and sampling
- Have conducted similar studies in vulnerability assessment.
- Have worked previously with NGOS
- Having natural resources data (especially water and climate data) in Jordan is an added value.
- Advanced knowledge of English and Arabic languages. Strong interpersonal skills and ability to work with people from different backgrounds to deliver quality product with short term frame.'
- Good understanding for the such project concept and understanding of NEXUS approach

(Water, Energy, and Food).

- Ability to communicate with the local communities in different level.

Supervision and coordination

The consultant will report to and work under the supervision of Project field assistant.