



Annex1: TERMS OF REFERENCE

Title of Assignment	Mobilization and Site Set-Up
Project Title	Job creation to prevent soil erosion and reduce evaporation in Zarqa Ma'in dam
Location	Zarqa Ma'in Dam - Madaba
Duration	One month

Project Background

About the Project

The project Job Creation to Prevent Soil Erosion and Reduce Evaporation in Zarqa Ma'in Dam project is funded by the Federal Ministry for Economic Cooperation and Development /through Deutsche Gesellschaft für International Zusammenarbeit (GIZ), which is implemented by (IUCN).

The project aims to improve the living condition of the Jordanian host communities and the Syrian refugees by creating job opportunities to reduce soil erosion and minimize the evaporation in the dam, in order to achieve this objective IUCN intend to implement different types of interventions and measures such as NBS (gabion and rip rap structures), shading techniques, afforestation, rangeland restoration, support the local community through implementing water troughs and rehabilitate the existing irrigation canal.

Zarqa Ma'in Basin

The Zarqa Ma'in Basin is the largest of the water basins in the length of its tributaries, which extends 420 km in length and it serves several sectors including domestic, agriculture, and tourism. Given this basin's scale and geographical characteristics, it made the valleys associated with it vulnerable to flooding, including the Zarqa Ma'in valley, which is considered the most Sediment accumulation due to soil erosion. The basin of the Wadi Zarqa Ma'in basin is about 266 km², and it ranges in height from 100 (above sea level) to (400) m below sea level. The rate of its discharge to the Dead Sea is 23 million m³ annually with 3 million m³ annually considered as runoff water, and (20) million m³ annually of permanent mineral flowing from dozens of hot springs surrounding the area. Zarqa Ma'in watershed supports several villages that surround the tributaries of the basin where around 28 settlements are located along the main streams of Zarqa Ma'in.

Zarqa Ma'in Dam

The Zarqa Ma'in Dam is located 5 km south of Ma'in town at the top of the Ma'in Hammamet Resort, 12 km southwest of Madaba city and almost 21 km from the Jordan Valley (N 31° 38' 49.4196"; E 35° 42' 18.738"). Zarqa Ma'in Dam receives its water from the Zarqa Ma'in watershed that starts south of the village of Ma'in and it begins in Ain Al-Zarqa at an altitude of 584 m above sea level and meets with a group of springs in the area called the Ma'in Baths, its length is about 18 km.

Zarqa Ma'in dam is relatively a newly established dam, where it has begun storage in 2017. This provides a great opportunity to implement measures that can protect the dam structure from soil erosion and sediments, enhance water storage capacities, increase the life expectancy of the dam, and support beneficiaries in the long term.

Multiple solution frameworks have been proposed to reduce the impact of soil erosion, and one of these frameworks addresses natural-based solutions NBS; Riprap and Gabion structures along the main wadi stream, as well as afforestation and rangeland restoration. In addition, the local community will be supported by rehabilitation the existing irrigation canal and establish water troughs for the local small herders.

IUCN ROWA will lead the assessment, planning, supervision, implementation, and handover of the project. The project manager jointly with a technical field coordinator and technical field assistant will lead the planning and implementation of interventions by managing C4W on daily basis, under full guidance and collaboration from the GIZ and JVA. Under this tender, IUCN intends to contract with a qualified company to implement the tender of Mobilization and Site Set-up in the Zarqa Ma'in Dam in the Madaba governorate in order to facilitate and support project implementation throughout the implementation period.

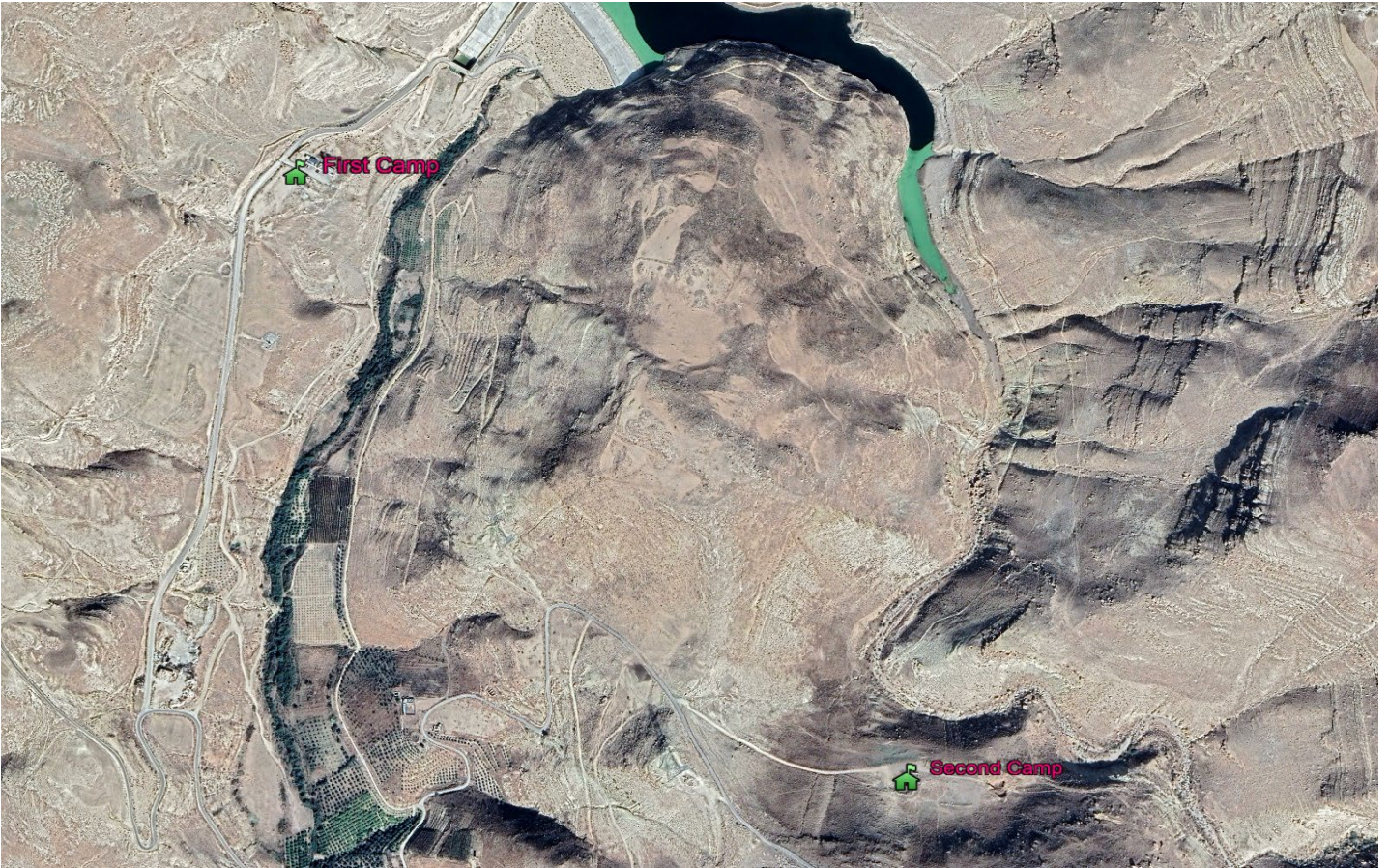
Scope of Work and Objectives.

Objective and scope:

The Mobilization and Site Set-up tender aims to establish adequate infrastructure to facilitate and support the project staff, laborers, and other related parties in the implementation of the project of Job creation to prevent soil erosion and reduce evaporation in the Zarqa Ma'in dam in Madaba governorate. Furthermore, ensuring adequate preparations on-site by providing the necessary hand tools and safety equipment prior to starting the implementation on the ground.

Under this tender, the contractor will be responsible for implementing all site mobilization activities related to establishing two camps in the working site; one in the dam area (in front of the existing dam's site facilities) and another in the upper dam area to facilitate the day-to-day management of the working locations. In addition, fencing the camps and part of the proposed planting area to secure the site facilities and the established seedlings. as well as providing the necessary goods, materials, hand tools, small equipment, and safety equipment (PPE) that are needed for labors use and start work on the ground. Figure 1 shows the proposed locations of the camps.

Figure 1: Camps locations



Main Tasks, Duties, and Responsibilities

Under the mobilization and site set-up tender, the contractor should complete the following tasks and duties under the full guidance and supervision of the IUCN team:

- A. Establishing two site camps by providing all logistics including survey, civil, electrical, and mechanical works, to fabricate, supply, and install all site camps' components (Table 1 show the main components of each site camp) to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications. under full oversight by the IUCN team, as follows:
 - Cleaning and levelling both camps sites, and spreading with selected materials (single size materials) materials in the site offices area, according to the tender documents, BOQs, specs, and drawings.
 - Fabricate, supply, and install caravans for use as site offices, warehouse, and guards' room. including all civil, electrical, mechanical, water and sanitation, and logistical works needed to complete this task to high performance and safety standards according to the tender documents, BOQs, specs, and drawings.

- Fabricate, supply, and install mobile caravans for use as toilets for labourers. including all civil, electrical, mechanical, water and sanitation, and logistic works needed to complete this task to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications.
 - Fabricate, supply, and install mobile water points for labour use. including all civil, electrical, mechanical, water and sanitation, and logistic works needed to complete this task to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications.
 - Set up an area for storing the large materials and equipment with dimension (15*15 m) including all civil, and logistic works needed to complete this task to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications.
 - Supply and install two fuel generators including all needed connections, one on duty and another on standby, in accordance with tender documents, BOQs, drawings, and specifications.
 - Carrying out all the survey, civil, mechanical, electrical, water, and sanitation works to ensure completing the implementation of the Mobilization and site set-up activities to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications.
 - Fabricate, supply and install attendance system to monitor the attendance and leave of the labours on daily basis, considering 150 labours daily in camp 1. In addition, the system, should be connected to the IUCN servers.
 - Fabricate, supply, and install security system covering the whole site camp 1 with cameras and needed connection, servers (record for at least one month), and all needed works and equipment to run the system.
 - Fabricate, supply and install fence up to high performance and safety standards in accordance with tender documents, BOQs, drawings, and specifications.
- B.** Supply and store hand tools and safety equipment; the contractor should supply hand tools and safety equipment (PPE) in accordance with tender documents, BOQs, and specifications. In addition, the contractor should deliver and store all this equipment at the site. Fencing the temporary camps and part of the proposed area for planting.
- C.** Fabricate, supply and install fence and all needed works for the site camps; should be in accordance with tender documents, drawings, BOQs, and specifications.
- D.** Supply and store Gabion baskets, geotextiles, and wires; should be in accordance with tender documents, BOQs, and specifications. In addition, the contractor should deliver and store all this equipment at the site (storage area)

The above duties description contains the main tasks, duties and responsibilities for the mobilization and site set-up. However, the contractor is expected to show flexibility in the implementation of the tender and be willing to undertake any other tasks that are necessary to perform this tender to high standers of performance and safety in accordance with the tender documents, BOQs, drawings, and specifications.

Key points to be considered during implementation and should be reflected in the submitted proposal:

1. Check and validate the landownership and make sure the proposed camps' site is on government property prior start implementing on the ground.
2. The work plan should illustrate logically the ability to implement and supply the goods under this tender within one month, taking into account demonstrating the resources intended to be utilized.
3. Prior to beginning supply and installation, the coordinates for all camp's components and fences should be established and validated.
4. The preparation of the camp area will include, but is not limited to:
 - The proposed camp area should be cleaned and levelled.
 - Selected materials (single size) should be spreaded in the camps area.
 - All electrical, mechanical, sanitation work, and so on is the contractor's responsibility.
 - All electrical, water and sanitary connections should be buried underground.
5. During the project implementation period, the contractor will be responsible for site security until the project is officially handed over to the IUCN.
6. Implementation priority should be given to camp 1, then, camps, then, supply the materials, tools, and safety.

Time Frame

The contractor should set out the work plan assuring implementing of this tender within 20 working days as the work plan should be detailed and shows all Key and sub tasks that should be performed to complete this tender.

Deliverables and Reporting

1. Deliverables

Under this tender, the contractor must deliver the followings:

- The company must hand over two site camps installed completely (all site facilities including fence, hand tools and safety equipment) according to the tender documents, BOQs, drawings, and specifications.
- As-built drawings for installed camps, equipment catalogues and warranties, operation manuals, spare parts, and any other documents should be developed and submitted to IUCN officially by the company.

2. Reporting

The contractor is required to submit weekly progress reports to the IUCN demonstrating the work progress in compliance with the approved work plan. Following the completion of the project, the company should draft and submit the Final Report. In addition, all work steps, the final version of all deliverables, stock inventory, data set, as built, equipment catalogues &

warranties, operation manuals, spare parts, and any additional needed documents. (The IUCN will provide the final report structure)

Qualifications of the experts' staff

The team (implemented team) should have the followings qualifications and experiences as a minimum:

Occupation	Qualifications
Civil engineer	<ul style="list-style-type: none"> • University degree in the civil or relevant engineering field (master\PhD degree is an advantage). • A minimum of 10 years of experience in the area of civil and construction project. • Minimum 3 years proven expertise and in-depth knowledge of the field of sites mobilization, camps set out with work experience in a similar project (camps Setout and mobilization). • Experience in providing all the required support in the civil and construction for site mobilization and site setup. • Reporting experience is required. • Advanced knowledge of English and Arabic languages. • Strong interpersonal skills and the ability to communicate with various stakeholders in politically sensitive situations with diplomacy and tact.
Electromechanical engineer	<ul style="list-style-type: none"> • University degree in the electrical, mechanical or relevant engineering field (master\PhD degree is an advantage). • A minimum of 10 years of general experience in the area of Electromechanical. • Minimum 3 years proven expertise and in-depth knowledge of the field of electromechanical with work experience in a similar project (camps Setout and mobilization) • Prove track experience in providing all the required support in the Electrotechnical for site mobilization field and site setup. • Experience in establishing and running attendance and security systems (cameras, servers, connections, etc). • Reporting experience is required. • Advanced knowledge of English and Arabic languages. Strong interpersonal skills and the ability to communicate with various stakeholders in politically sensitive situations with diplomacy and tact.

Remunerations (payments)

The payments will be made to the contractor upon satisfactory completion and handing over of deliverables as follows:

No.	Payments	Amount	Payment's Requirement
1	The First Instalment	Corresponding to 40% of the total contract amount	Upon sign the agreement.

2	The Final Instalment	Corresponding to 60% of the total contract amount	Upon satisfactory handing over the project, submit all the deliverables stated in the deliverable and submit the final report. Completion certificate from the IUCN.
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Probable Risks

As a part of ensuring the implementation of the tender up to high standards of performance and safety, the contractor should consider and address properly the following risks:

- COVID-19 status: COVID-19.
- Different sources of hazards may happen in the workplace such as falling, slipping, snake bites, and random accidents. For controlling such risks, the contractor should apply restricted safety procedures and measures.
- Extreme weather conditions and floods: Extreme hot and cold temperatures and High-intensity rainfall events can affect contractor progress in terms of productivity and safety; thus, the contractor should monitor weather forecasts daily.

Handing over

The company should hand over two site camps installed in accordance to the tender documents of mobilization and site setup; all site facilities including fence, hand tools and safety equipment. As well as as-built drawings for installed camps, equipment catalogues and warranties, operation manuals, spare parts, and any other related documents should be handed over.

The handover should be through official form signed and stamped by the IUCN.

Nature of penalty clause in the contract

If the tasks, reports, or any of the contractor responsibilities are not submitted or accomplished according to the tender documents and timeframe, the payments will be withheld.

IUCN ROWA reserves the right to withhold all or a portion of payment if performance is unsatisfactory if work/outputs are incomplete, not delivered or for failure to meet deadlines. All materials developed will remain the copyright of IUCN and IUCN will be free to adapt and modify them in the future.