**Terms of Reference for** **Hiring a technical design Consultant**

**1. Background**

Tankamel Sawa, a prominent entity committed to social and developmental initiatives, seeks to engage a technical Design Consultant. This initiative, part of a strategic partnership with arche-nova and supported by the BMZ project, aims to enhance the response plan for 2024 proposed projects in collaboration with NLWE under the project “**Strengthen resilience of refugees from Syria and their host communities to current and future challenges and risks related to socio-economic crises in Lebanon’’**

**Objectives**

The primary objective of this consultancy is to provide expert technical design and study services for two water infrastructure projects, ensuring efficient, sustainable, and reliable solutions. The specific objectives are:

1. To study and design a comprehensive pumping set with the related civil and mechanical works for the HAB pumping station towards the Qualamoun area.
2. To study and design the remaining equipment for an existing borehole in Markebta Dunniyeh, including necessary civil works, a pumping equipment and station, and connection to the main village tank with the needed power supply.

**Scope of Work:**

The Consultant will be responsible for the following tasks covering two projects **(Hab Pumping Station)** and **(Boreholes in Markebta Dunniyeh):**

* + Prepare an inception report: Outlining the methodology, work plan, and timeline within one week of contract commencement.
	+ Meet the NLWE representative (Mr. Nasser) and collect the needed information, accordingly, conduct a technical assessment covering all the project components.
	+ Prepare a full study for the requested project, including a cost-efficient full design with all related drawings, calculations, specifications, BoQs with cost estimation (following the current market prices).
	+ Meet TKS and NLWE to present the study and adjust it based on any comments (if necessary).
	+ Ensure all designs are compliant with local and international standards.
	+ Support TKS with the technical evaluation of the bid.
	+ Follow up with the selected contractor on the implementation of the project (the follow up includes regular site visits and meeting).
	+ Prepare a project report and manual including as built DWGs.

**Timeline**

The consultancy is expected to be completed within a period of 5 weeks from the start date. The timeline is as follows:

* Inception Report: 1 weeks
* Preliminary Designs: 2 weeks
* Stakeholder Review and Feedback: 1 weeks
* Final Designs and Reports: 1 week

**Experience:**

* Professional Experience: At least 5 years of professional experience in the design and implementation of water infrastructure projects. This should include significant experience in planning, designing, and managing large-scale water supply systems, pumping stations, boreholes, and pipeline installations.
* Experience with NLWE is a plus

**Technical Skills:**

* Software Proficiency: Proficiency in engineering design software such as AutoCAD, Civil 3D, and other relevant tools. The ability to create detailed and accurate technical drawings and models is crucial.
* Standards and Regulations: Strong understanding of local and international standards for water infrastructure, including but not limited to ISO standards, WHO guidelines for drinking water quality, and national building codes. Knowledge of environmental impact assessment processes and sustainable design principles.
* Innovative Solutions: Capability to incorporate innovative and sustainable engineering solutions in the design process. Experience with renewable energy sources for pumping stations, water conservation techniques, and climate-resilient infrastructure is a plus.

 **Other Skills:**

* Communication: Excellent communication skills, both written and verbal, to effectively convey technical information to a range of stakeholders including non-technical audiences. Ability to write clear, concise, and comprehensive reports, proposals, and technical documents.
* Collaboration: Ability to work collaboratively with a diverse group of stakeholders, including government officials, community leaders, contractors, and other consultants. Experience in stakeholder engagement and participatory design processes is preferred.
* Analytical and Problem-Solving: Strong analytical skills to assess project needs, identify potential challenges, and develop practical solutions. Ability to conduct thorough feasibility studies, risk assessments, and cost-benefit analyses.
* Leadership and Adaptability: Demonstrated leadership qualities with the ability to guide and inspire project teams. Flexibility and adaptability to work in dynamic environments, manage unforeseen challenges, and adjust plans as necessary to achieve project objectives.

**7. Application Process**

Candidates are invited to submit the following:

* Signed and filled copy of RFQ 11-24 with signed TOR form.
* A comprehensive portfolio detailing relevant experience and qualifications.
* CV of the assigned engineers
* A financial proposal outlining the consultancy fees.
* workplan

**8. Evaluation and Selection**

Candidates will be evaluated based on their relevant experience, the quality of their proposal, cost-effectiveness, and alignment with Tankamel Sawa's values and objectives. The selection process may include interviews and presentations for shortlisted applicants.

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