

TERMS OF REFERENCE

Consultancy: Implementation of the solarization works in one pumping station in Majdel Aanjar, in Zahle District.

I- Background for this consultancy

In Lebanon, around 2.8 million people are struggling to access safe drinking water and adequate sanitation facilities, leading to a range of challenges including increased poverty and limited access to essential services. Water supply is unreliable, with pumping stations frequently offline due to power cuts and fuel shortages. This situation disproportionately affects women and girls, exposing them to health risks, longer journeys to fetch water, and heightened dangers of gender-based violence. The severity of WASH-related needs in Lebanon has risen by 25 percent since early 2022, particularly in the Zahle district, where over 300,000 individuals, including both Lebanese and displaced Syrians, require WASH assistance. AVSI, in collaboration with the WASH sector cluster and the Bekaa Water Establishment, has identified water pumping stations in need of solarization. After careful assessment, stations in Barr Elias, Kfarzabad, and Qabb Elias were excluded, as they are already supported by other humanitarian organizations. Consequently, AVSI will focus on solarizing the Jdita water pumping station, serving critical areas and benefiting a total of 78,560 people, while other private wells remain unused due to cholera contamination.

II- Scope of work

The consultancy is collocated within Output 1.1 of the project: The most vulnerable in hosting and displaced communities have access to sufficient quantity of quality, reliable and equitable water.

The proposed intervention, on the Jdita water pumping station, consists of the installation of a 137.7 KWp PV solar system, in line with the standards set by the BWE (Bekaa Water Establishment). The Municipality of Majdel Aanjar secured public land to BWE for solar system installation. AVSI discussed and agreed on the proposed intervention with representatives of the Bekaa Lebanon Water Establishment (BWE) and with Majdel Aanjar Municipality.

III- Expected outputs and deliverables:

Activity	Description	Estimated duration to complete	Review and approvals required
Technical Assessment	- Validate the BOQ of the Solar PV system and design the PV system and shop drawing	Within the first two weeks	Project manager
	- Participation to the contractor's selection committee with the technical evaluation of the offers received. - Physical visit of the selected contractor's premises for quality inspection and issuance of a quality report - Supervise the overall operation: site inspection and in-depth assessment, PV system design, installation works supervision. - Reporting on site supervision following frequent site visits, thus in addition to checking the materials submittals and shop drawings. - Work closely with the Engineering Department of the Bekaa Lebanese Water	8 months	Project manager

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	Establishment in order to comply with ministerial and sector standards for the solar system installation		
Monitoring and control	<ul style="list-style-type: none"> - Regular (weekly frequency) follow up of the works with visits to the sites and ad hoc meeting with the BWE and contractor. - Track and record the BoQs follow up; quantity and quality control of the material used and work progress. - Together with the MEAL department and the project manager, participate in the definition of the monitoring tools for the work. - Biweekly follow up meeting with the project manager. - Validate the quantities and quality of materials used on site versus BOQs agreed with BWE and the contractor's contract. - Final quality and quantity control to ensure the handover of the works for the BWE 	8 months	Project manager
Reporting	<ul style="list-style-type: none"> - Provision of midterm and final narrative report coupled with all technical supportive documents. 	By the end of the 4th month and at the end of the consultancy period	Project manager

IV- The Consultancy Details

- Time and Place

The consultancy is expected to start by October 10th 2023 and end by June 10th 2024.

The area of implementation will be Zahle District, in particular Majdel Aanjar will be the target of the solar system intervention.

- Language for the delivery of the consultancy

The working languages for the consultancy are English and Arabic. As for the field visit and the relations with partners must be held in Arabic. As for the meetings, it is recommended to be facilitated in Arabic or English. All materials and supportive documents must be and remain accessible online for AVSI project staff.

- Consultant's profile

Consultant should have the following profile:

- a) **Education:** Advanced University degree in Engineering, notably in Electrical, mechanical, environmental or civil engineering.
- b) **Specialist skills/Workshop:**
 - Good writing and communication skills with ability to present ideas and concepts concisely in written and oral form is required
 - Demonstrated experience in facilitation skills.
 - Be able to work under minimum supervision and to meet tight deadlines
- c) **Years of experience:**
 - Minimum 5 years of experience
 - Thorough experience working in Solar Panels systems
 - Experience working with marginalized communities
 - Very good knowledge about the Lebanese Water Establishment functioning and mechanisms.



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- Experience with the projects in the Public Sector and Public infrastructure
- d) Competencies:**
 - Core competencies: communication, drive for results, working with people
 - Technical Competencies: Formulating strategies and concepts, analysing, relating, applying technical expertise.
- e) Languages required:**
 - Fluency in oral and written English and Arabic (workshops will be delivered in Arabic)

V- Documents to be submitted for the selection

Please refer to section 4 of the Request For Quotation

VI- Terms of Payment

The consultant is expected to be paid partially as per deliverables achievements.

VII- Risks

The Consultant (including the team of monitors and facilitators) must respect the conditions mentioned in the AVSI security and safeness policy in case of not having their own policy.

AVSI is committed to diversity and inclusion within its workforce, and encourages qualified female and male candidates, from all religious and ethnic backgrounds, including persons with disabilities, to apply for this opportunity.