

Scope of Work (SOW)

1. Background

Samaritan's Purse is an International Relief Organization that provide emergency relief support to internally displaced people (IDPs), refugees, and returnees across the country. With funding from Samaritan's Purse IHQ, Samaritan's Purse is planning to drill one borehole and upgrade to solarized water systems and therefore seeks the services of competent and reputable contractors to submit bids to undertake this work.

2. Objectives of the assignment.

The objective of this SOW is to state roles and responsibilities of SP and Contractor for in order to drill and upgrade one (1) borehole to a solarized water system in Joppa Village, Juba County, Central Equatoria State.

3. Scope of the Work (SOW)

3.1. Summary.

The contractual tasks involved in this contract will constitute the fabrication of a steel elevated tank, trench excavation, and plumbing, construction of a pump house, Perimeter fence construction, masonry work for the community distribution points, and installation of submersible pumps with all their components. The contractor is expected to provide all sets of skills to undertake these activities in accordance with the BOQ, and drawings, and covert these handpumps into a solar-powered water delivery system on a labor-based contractual agreement.

3.2. Tasks to be carried out:

The contractor is expected: to

- 1) To drill one borehole, develop the well, conduct pump test and identify the water yield.
- 2) Upgrade the borehole to a solarized water system by supplying all the required materials to raise 7.5m high elevated tank in accordance with the drawings and BOQ provided capable of withstanding 10,000 liters tank, mounted with Solar panels, and a ladder for access to the tank. The contractor will then engage their skilled labor force to complete the remaining scope of work detailed in the table below.

Contract stages.	Description
Pre-Construction and Mobilization.	<ul style="list-style-type: none"> • At this stage, the contractor shall undertake all preparations for the commencement of works like site assessment and inspection, review of method statements, and highlight areas that may pose a risk to timely completion. • Review and make recommendations on the procured materials to finalize any deficit of materials that could otherwise interrupt the construction work. • Provide a pre-construction report before commencing to enable the sector team to address challenges identified during this stage for smooth construction and installation process. • Mobilize for Skilled labor and provide all equipment required for fabricating the elevated steel tank, plumbing work, pump installation, fence, pump house and distribution points.
Construction Quality and Compliance.	<ul style="list-style-type: none"> • Provide a detailed work plan before the start of work and this will help the sector staff to track the progress of work, enable management visits as well as for supervision by the sector staff. • The contractor is expected to put in place a safety plan and avoid non-contracted people on site to ensure the safety of their staff during construction work. • The contractor must ensure the sector staff inspect, determine and approve the stages/parts of work, before, during, and after completion of each stage and/or whole of the work to ensure compliance with the specifications and standards required by Samaritan's Purse. • During the construction period, the contractor shall take measures to ensure that work progress Vs the planned time schedule days are being adhered to and make up for time lost to ensure the project goes as planned.

<p>Borehole Drilling and well development</p>	<ul style="list-style-type: none"> • Geophysical investigations, Pump test, water quality analysis and Drilling completion reports for the respective two borehole sites. • Borehole drilling with minimum 8” diameter in all types of formation. • 5” internal diameter P.V.C plain threaded casing • 5” internal diameter P.V.C Screen threaded casing minimum 30% of casing depth • Installation of minimum 3m plain starter casing with a bottom cap • 10” internal diameter Steel blind surface casing 1.5m length • Supply and packing of 3-4mm diameter river gravel enough to cover at least 5 meters above the screen casing • Well development to satisfactory turbidity of less than 5 NTU, including well disinfection with chlorine solution and well head cap installation. • Grout with mass concrete to a depth of 5m below ground surface (1:3:6mix) • Construction of well head with mass concrete (0.70m x 0.70m base and 0.80 m height trapezoidal shape) • 90m is the minimum depth and 0.5 liters per second minimum yield acceptable (if yield below this and unable to support a submersible pump. In consultation with client to consider a full platform construction for an IM2 pump adaptation)
<p>Scope of Work Water Yard Upgrade.</p>	<ul style="list-style-type: none"> • Fabrication of 7.5 m steel elevated tank frame designed to carry 10,000 Liters capacity. • Carry out a borehole yield test and submit the test report to the SP sector team.

	<ul style="list-style-type: none"> • Carry out the installation of the Solar panels, submersible pumps, and all the electrical components supplied to deliver water to the elevated tanks. • Install the 10,000 Liters tank with a drain valve at the bottom of the tank to empty dirty water during maintenance. • Excavate trenches for pipe and lay pipes. • Construct four (4) community water distribution points each community distribution point having six (6) taps/faucets. (See drawings and BOQ for guidance) • The contractor shall carry out plumbing work from the well (borehole) to the elevated water tanks, and from the tanks through 2” distribution pipes to community distribution points through 1” pipes from the main 2” distribution pipes. At the community distribution points, the 1” pipes will be reduced to ¾” taps/faucets. • Construct a small pump house in accordance with the BOQ to house the Pump controllers and related accessories. • The contractor is expected to construct a perimeter fence measuring 5m x 6m (30M²) around the upgraded water yard system (boreholes, elevated tanks, and pump houses), and install doors of specific dimensions as specified on the BOQ.
<p>Knowledge and Skills Transfer to Sector Staff.</p>	<ul style="list-style-type: none"> • For the sustainability of these systems, the contractor is expected to share and transfer their knowledge and ensure they mentor SP WASH sector staff during the construction and installation process with a view of training Water Operators who will be overseeing the O&M of these water systems.

<p>Expected Qualification of the Contractor.</p>	<p>The Contractor will appoint</p> <ul style="list-style-type: none"> • A project manager/drilling engineer with at least 10 years of drilling experience who shall be responsible for the drilling operations. • A hydrogeologist with at least 5 years of experience in the field of water well drilling and geophysical investigations • Skilled plumbers. • Welders. • Masons. • Certified Pump Installers.
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4. Roles and Responsibilities of the Parties to the Contract.

4.1. Contractor.

- Provide all the required skilled labor as indicated in the table above required to execute this contract.
- Pay for all the laborers and casuals who will be engaged during the execution of this contract.
- The contractor is responsible for feeding and accommodation of the working team during this time of work.
- The contractor is responsible for the safety all individuals hired to execute this contract. SP will not be responsible for the safety and injuries or death arising during the execution of this contract.
- The contractor will produce and submit report on the following accomplished tasks.
 1. Material review report: Review all the Construction and installation materials procured and notify the status.
 2. Geophysical investigations,
 3. Drilling Completion Report (Pump test on discharge and recovery yield test, water quality analysis and well development details)

4. Borehole upgrading report: Fabrication and installation of the elevated steel tower; Installation of the submersible pumps, solar panels, and water tanks and all the plumbing works; Construction of pump house, distribution points and Fence
5. Project completion report

4.2. Samaritan's Purse

1. Responsible for coordinating with local authorities, communities, and other stakeholders in matters relating to this drilling and upgrading work.
2. Pay the contractor in accordance to the agreement set forth in the contract.
3. Conduct regular monitoring visits, inspections, and certification of the portion of the completed work.
4. Provide guidance and technical advice and support during the execution when deemed necessary.
5. **SP** will not be responsible for any injuries or death sustained by the contractor or any individuals subcontracted by the contractor to execute this work.
6. Samaritan's Purse has "Zero Tolerance approach" to Sexual exploitation and abuse and does not allow any partner supplier, subcontractor, agent or any individual engaged by Samaritans Purse to engage in any form of sexual abuse or exploitation against Vulnerable or other adult's associating with its work.
7. Sexual exploitation and abuse by humanitarian workers constitute acts of gross misconduct and are therefore grounds for termination of contract.

5. Interface between SP and the Contractor.

- The parties to this agreement as well as the stakeholders for this project should ensure there is a good line of communication and coordination for seamless implementation.
- All relevant communication and coordination in regard to this contract should be channeled through the focal person designated from Samaritan's Purse to work with the contractor in the field.
- The contractor can consult SP technical team for any guidance or advisory assistance such as interpretation of the work during the execution of this contract.

6. Handing Over.



- A joint inspection on the upgrading works will be conducted with different parties including county local authorities, community leaders, the County Water department, Samaritan's Purse and the Contractor and should there be a case of defaults in any components, it has to be rectified by the contractor before final handing over.
- The contractor will hand over the water facility to SP and SP will handed over to the community. Samaritan's Purse will carry out post-construction monitoring for a period of three months as a defect liability period.

G. Contract Duration

- This contract is expected to run for a period of 30 days days effective from the day of signing the contract.

H. Annexes.

- i.** Design/Drawings.