



## REQUEST FOR QUOTATION (RFQ)

**Ref: CA/ZVBP-BH/02/25**

RFQ Reference: CA/ZVBP-BH/02/25 Test pumping, Supply and Equipping of Mariga Health Post and Masoka Camp boreholes, Mbire District, Zimbabwe	Date: 12 June 2025
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1. CAMPFIRE Association is inviting tenders from reputable individuals/organizations to submit quotations for the provision of goods, works and/ or services (boreholes test pumping, equipping & solarization) as detailed in this RFQ.
2. Quotations should be provided in **United States Dollars (USD)** value and addressed to;  
CAMPFIRE Association  
C/O UNDP GEF 6 Project  
Mukuvisi Woodlands  
Cnr Glenara Ave South & Hillside Rd  
Harare
3. **Deadline for the Submission of Quotations is 19 June 2025, time 1200hrs.**
4. Bidders should use the provided costing template/BOQ to ensure uniformity in costing. The template/BOQ is attached separately to this RFQ.

5. **Method of submission;** Quotations should be submitted together with a full company profile and requirements as listed under the eligibility criteria to [campfire@ecoweb.co.zw](mailto:campfire@ecoweb.co.zw)

## **TECHNICAL SPECIFICATIONS AND PROCEDURES**

### **1. SCOPE OF WORK**

The works consist of solarizing two (2) existing boreholes; Mariga Health Post and Masoka Hunting Camp as per the specified pumping and related accessories requirements. Other ancillary works include developing the borehole for pump installations and connection to a solar pumping system as per the specifications provided in this RFQ, construct water reticulation networks to storage tanks positions, construct the elevated tanks and connect/establish water points serving the community and the Health Post.

In addition, the works also include fencing off the water sources with specified security fences, and make provisions for access gates as per the requirements in the schedule of materials accompanying this RFQ. Palisade Fencing top Spiked, Height Above ground  $\geq 2.2\text{m}$  rust protected Area  $20\text{m}^2$ . All solar installations shall be as per provided drawings and material specifications. The contractor shall also undertake environmental restoration works for all construction points and make good all disturbed portions upon completion of the works.

### **2. WORK DETAILS**

#### **2.1 Borehole Capacity Testing;**

- BH depth (m) - unknown
- Blow yield (Ltrs/Sec) - unknown
- Static Water Level (m) - unknown
- Final draw down (m) - unknown
- Capacity test yield - unknown
- Guide Pump size - TBA

#### **2.2 Delivery and Related Requirements**

Installation Requirements	1. Supply & install borehole submersible pump sets with the specified design flowrates and total dynamic
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	<p>head (TDH) requirements. The pump sets specifications shall be of the specific stainless-steel impellor and diameters on each of the borehole.</p> <ol style="list-style-type: none"> <li>2. Supply &amp; Install downhole pipes and fittings for the borehole pump. Fittings to include NRV, Gate Valve, borehole cover and Borehole manhole with lock and cage housing the borehole and fittings.</li> <li>3. Hybrid Solar VSDs capable of powering motor on the submersible pump and matching the duty point. Each VSD unit to include waterproof enclosure, DC &amp; AC breakers.</li> <li>4. Lightning Protection system, to include surge protection system, lightning arrestor, lightning rod and lightning spike. 1.2m lightning rod to be earthed to the ground connected to a 10mm bare copper wire connected to the solar panels.</li> <li>5. Solar panels should be at least 410W in size. Provide Monocrystalline half-module technology with an efficiency of at least 20%.</li> <li>6. Solar mounting structures as per specifications provided on the BOQs</li> </ol>
Testing Requirements	All construction Foundations and electrical installations be approved by the Project/Supervising Engineer.
Scope of Training on Operation and Maintenance and supply of user manual books	The contractor shall undertake training on operation and maintenance and issue all the manuals and catalogues including the as built drawings and layouts with details of components and provide for makers on buried pipelines. The contractor shall also put up performance information on all the installed equipment.
Commissioning	Upon satisfactory completion of all activities related to the construction works and completing the ancillary works involved, the contractor shall be issued with a completion certificate by CAMPFIRE Association (CA).
Warranty Period (DNP)	All installed equipment and infrastructure shall be subject to a Defects Notification Period of 12 months from the date of commissioning of the project within which the contractors shall attend to all defects and faults reported. CA shall retain a percentage of the contract amount to be paid at the end of a compliant and successful DNP.
Payment Terms	Payment shall be as per payment schedule for substantial completion of delivery milestones through

		submitted interim payment certificates (IPC). Each IPC shall be paid upon CA's acceptance of the completed and functional water supply milestones delivered as specified in the payment schedule and receipt of a Fiscalized invoice (FTI). The payment schedule shall be included in the contract for the winning bidder.
Conditions Release Payment	for of	<input checked="" type="checkbox"/> Material/equipment delivery <input checked="" type="checkbox"/> Installation <input checked="" type="checkbox"/> Testing <input checked="" type="checkbox"/> Training on Operation and Maintenance <input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with RFQ requirements

### 2.3 Drawings/Designs

- As provided under designs and read together with the BOQ provided.

## 3. DEFECTS NOTIFICATION PERIOD

The contractor is required to technically backstop the community during a Defects Notification Period (DNP) not exceeding six (6) months after the commissioning of the project. For the DNP, CA shall retain a maximum of 5% of the contract value. Up to 50% of the retention amount shall be claimable upon commissioning and testing of the constructed infrastructure to the satisfaction of the UNDP Representative while the remaining 50% shall be paid to the contractor within 30 days of the expiry of the compliant DNP. If the contractor fails to comply with the requirements of the DNP, CA shall invoke penalties stated in the contract to recover the costs involved.

## 4. BIDDERS/CONTRACTOR OBLIGATIONS

The following is a general outline of the requirements/obligations of the construction firm/bidder.

Security & Insurance: The Contractor shall secure the works against vandalism and interference during the duration of the project until handing over the works officially. The Contractor shall be responsible for securing insurance against theft, damage, or accident arising from man-made or

natural disasters to his/her personnel, materials, equipment, plant, and the works.

Provision of materials, equipment & plant: The contractor will be responsible, at their own cost, for the provision and transportation to the site of all personnel, materials, tools, equipment, plant, transportation, and other facilities that are required & necessary for the works and proper performance of the service.

Execution of Works:

- The contractor shall set out and execute works in line with the General Terms and Conditions governing the contract and as per the technical specifications, design drawings, ToR, and as per documents in the RFQ Dossiers, and to the satisfaction of the Project Engineer.
- The Contractor shall ensure to carry out all necessary checks and interventions prior to the execution of service.
- The Contractor and its staff shall ensure that the services provided are in accordance with the professionalism and ethical standards.
- The Contractor is entirely responsible for any act, omission, or negligence in the performance of its functions and fulfils its obligations under the contract.

On-site supervision of works: Works shall be directly supervised by pre-approved competent personnel from the identified Contractor. For this reason, the contractor is to hire competent, experienced personnel.

Experience: The bidder is required to have previous experience and a proven track record in the construction and delivery of the related works (Refer to Schedule requirements on experience).

Work Plan: The bidder shall prepare a detailed work plan showing critical activities and the critical path for the execution and construction of the project components. The contractor should demonstrate how procurement activities for the delivery of the requisite construction materials, equipment, and machinery are factored into the work plan.

Approval for works/materials/equipment: During the construction period, to ensure that works are performed according to the quality control plan, the contractor will be required to get approval from the Project Engineer for all materials, equipment, and plant to be used for the works.

Commissioning and provisional handover: At this final stage of the works, the contractor will avail access to relevant documents (As-built final drawings and layouts, system operation and maintenance brief) and to the project site. The contractor will also facilitate the commissioning process to enable the

employer (CA) and relevant government authorities to verify and certify that the works are constructed and are executed as per quality and design standards and specifications. The contractor shall provide operation and maintenance training to the end-users and the local authority at the commissioning and handing over phase of the project.

Defect Notification Period: The contract foresees the Defect Notification Period after substantial completion of works. The contractor is due to guarantee an adequate follow-up during this period. The contractor's obligation includes undertakings to rectify defects during the Defect Liability Period. CA will indicate during the commissioning phase to the contractors the modalities and the mechanisms the contractor needs to follow up.

Key Personnel for the Contract Bid:

- Project Manager – Degree in Civil/Water Engineering with 7 years of relevant experience, certified for Project Management
- Agricultural/Water Engineer – Degree in Agricultural Engineering or Irrigation Engineering or Civil /Water Engineering with at least 5 years' experience in irrigation and water engineering works.
- Electro-Mechanical Engineering Technician – Diploma in Electrical Engineering or Mechanical Engineering with at least 7 years of experience in electromechanical and borehole pumping systems installations
- Pump/Pipe Fitter – Certificate in Drain Laying with at least 5 years' experience in pump/pipe fitting

## **5. DELIVERY TIMELINES**

The bidder is expected to complete the works within **three weeks (21 days)** of contract award. The contractor is required to prepare a detailed work schedule for the phases mentioned below, showing the critical tasks, path, and deliverables. The contractor shall prepare detailed works prior to award of the contract or during the mobilization period. The Contractor shall also be responsible for providing daily and weekly update reports. The execution of the works will be undertaken in phases as listed below.

- Phase 1: Mobilization to sites (2) Capacity testing of the existing boreholes and report; viability for mechanization.
- Phase 2: Borehole number 1 installations (Pump, Solar and storage tanks works)
- Phase 3. Borehole number 2 installations (Pump, Solar and storage tanks works)
- Phase 4: Defects Notification Period (DNP) and Final Handover (5% of the Contract Amount)

**Notes:**

- *The phases may not necessarily be implemented in the above linear (sequential) and can overlap as the Contractor sees fit for efficient execution. For this, CA prefers a multiple team's approach working on the two (2) sites which can be implemented concurrently.*
- *Contractors are advised to take into consideration the risks and issues arising from delays and the challenges in delivering material and labour to the site. The contractor is required to have in advance a plan for the mitigation of such risks.*
- *The payments amounts shall be worked out in the final contract issued to the successful bidder upon issuance of the contract. **CA shall not pay any advance payment for this contract and expects the bidders to demonstrate financial capacity to pre-finance the works.***

**6. ELIGIBILITY CRITERIA**

Bidders are required to meet the following criteria to be eligible to participate in this procurement. Bidders should provide any available documentation and certify their eligibility.

- a. Have the legal capacity to enter into a contract; please provide Certificate of Incorporation and any other documents to prove they have legal capacity.
- b. Not be insolvent, in receivership, bankrupt or being wound up, not have had business activities suspended and not be the subject of legal proceedings for any of these circumstances.
- c. Valid Tax Clearance Certificate and Valid NSSA Compliance Certificate.
- d. Have fulfilled their obligations to pay taxes and social security contributions in Zimbabwe;
- e. Not have a conflict of interest in relation to this procurement requirement;
- f. Not be debarred from participation in public procurement under section 72 (6) of the Public Procurement And Disposal Of Public Assets Act and section 74(1) (c), (d) or (e) of the Regulations or declared ineligible under section 99 of the Act;
- g. Have been registered with the Authority (PRAZ) as a Supplier and have paid the applicable Supplier Registration Fee.
- h. Provide record of having successfully completed similar work (borehole solarization) in recent years. At least three signed and stamped reference letters.

- i. Demonstrate capacity to avail minimum required plant equipment for the works.
- j. Indicate duration of the work in a proper work plan.
- k. Indicate the price for drilling a borehole for each site and total costs of the scheduled work in the provided BOQ.

In addition to these eligibility requirements, Bidders must have;

- Sufficient equipment to execute the project scope.
- An ability to work and deliver with minimal supervision under a given schedule.
- Experience in the rural water sector in Zimbabwe.
- Proven skills in borehole solarization and all the associated works.
- Familiarity with rural community engagement.
- Fluency in English and local languages.
- Excellent communication skills and experience in working with a diverse range of partners including engaging government officials at district levels.
- Experience working with NGOs and/or private contractors in rural settings.

## 7. SELECTION CRITERIA

The contractor will be selected according to the following criteria:

- Experience in similar assignments
- Preferred geographical location
- Capacity
- Overall quality of the proposal
- Cost
- Timeframe
- Reputation

## 8. BOREHOLE LOCATIONS

<b><i>No.</i></b>	<b><i>Site</i></b>	<b><i>No of boreholes</i></b>	<b><i>Est. distance from Mushumbi Pools (km)</i></b>	<b><i>Road condition</i></b>	<b><i>Min Yield</i></b>	<b><i>Exp</i></b>
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1	Masoka Camp - Masoka Wad 11	1	70km	Gravel	1/ litre per second for mechanization
2	Mariga Health Post - Kanyemba Ward 1	1	120km	Gravel	1/ litre per second for mechanization

## ANNEXURE

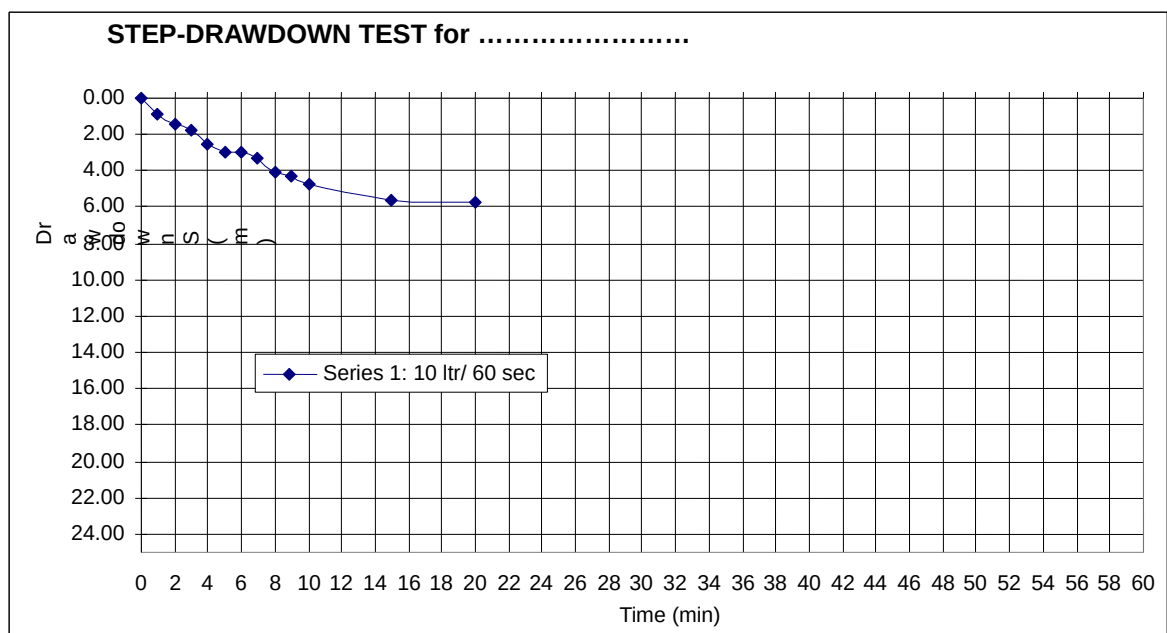
### EXAMPLES OF STEP-DOWN RECORDS

AQUIFER CAPACITY TEST - STEP DRAW DOWN TEST REPORT: Example			
STEP 1 :	Discharge set at (Liters/Second):		Variable
Time Elapsed (Minutes)	Depth To Water Level (Meters)	Drawdown (Meters)	Remarks
0	5.8	0.00	
1	6.65	0.85	2 liters / sec
2	7.25	1.45	
3	7.54	1.74	
4	8.29	2.49	
5	8.76	2.96	
6	8.82	3.02	
7	9.08	3.28	
8	9.84	4.04	
9	10.1	4.30	
10	10.5	4.70	

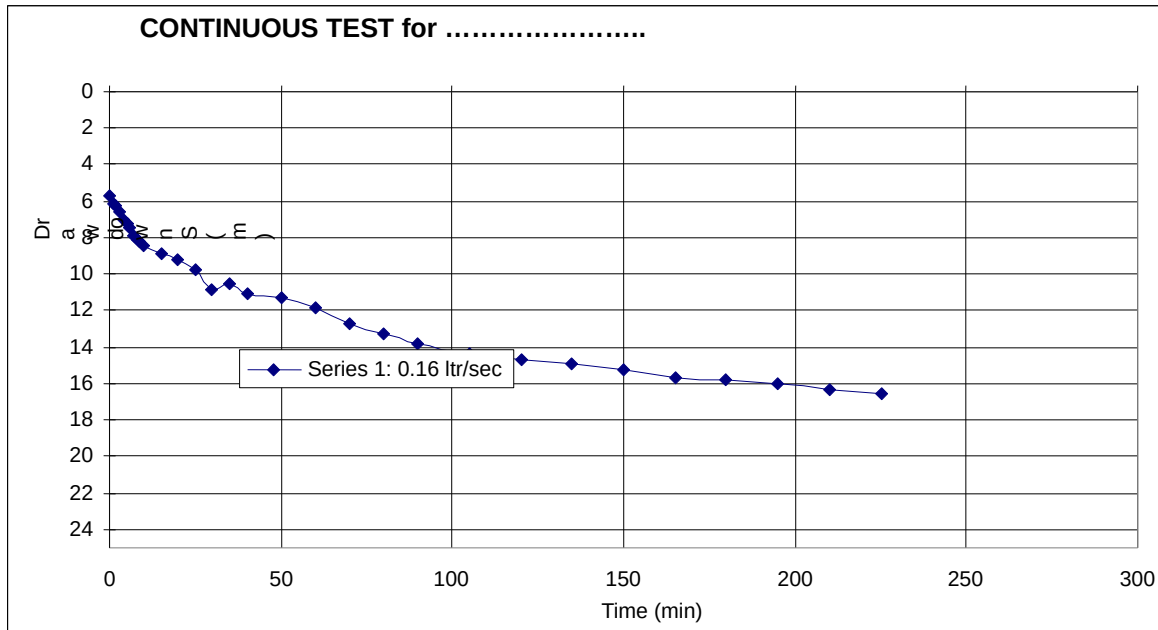
15	11.4	5.60	
20	11.54	5.74	
25			
30			
40			1.5 liters / sec
50			
60			
70			
80			1.0 liters /sec
90			
100			
120			

## DRAW DOWN CURVES

### STEP DRAWN DOWN: EXAMPLE



## DRAW DOWN CURVES CONTINUOUS AT FIXED DISCHARGE: EXAMPLE



## RECOVERY TEST EXAMPLE RECORD

AQUIFER CAPACITY TEST - RECOVERY TEST				
Name of Site:			District:	Date:
S.No	Time Elapsed (Minutes)	Drawdown (Meters)	Yield ( Ltr / Sec)	Remarks
1	0	22.34		
2	1	20.15		
3	2	19.30		
4	3	18.59		
5	4	17.97		
6	5	17.00		
7	6	16.37		
8	7	15.99		

9	8	15.42		
10	9	14.22		
11	10	13.29		
12	15	13.34		
13	20	13.15		
14	25	10.28		
15	30	9.63		
16	35	8.48		
17	40	7.72		
18	45	7.05		
20	55	6.43		
21	60	6.10		

**NB.** *The successful borehole shall be equipped with a motorised pumping system, so the contractor is required to produce detailed borehole capacity test results and recommend pumping rates. The required hydraulic borehole characteristics shall include duration of pumping, safe pumping rate tested yield, dynamic water level, recovery, borehole depth, recommended pumping depth.*