



**TERMS OF REFERENCE TO SUPPORT THE INSTALLATION OF SOLAR SYSTEMS UNDER THE  
RESILIENT COMMUNITIES TO HEALTH AND CLIMATE CHANGE HAZARDS IN UGANDA (RCHCH-U) PROJECT IN UGANDA.**

---

In cooperation with:



Funded by:



Submit your Request for Proposal (RFP) to:  
Environmental Alert.  
Plot 475/523 Sonko Lane, Kabalagala  
P. O. Box, 11259,  
Kampala, Uganda  
Email: [info@envalert.org](mailto:info@envalert.org) and cc:  
[jancinta.nekesa@envalert.org](mailto:jancinta.nekesa@envalert.org)  
TEL.: 0414510547

## **1. BRIEF DESCRIPTION OF THE PROJECT**

Environmental Alert, in partnership with Südwind, is implementing the Resilient Communities to Health and Climate Change Hazards in Uganda (RCHCH-U) project in the disaster-prone districts of Kasese and Ntoroko. The project aims to strengthen community resilience, particularly among women, children, and the elderly, who face compounded challenges from climate-induced disasters and regional instability.

The Rwenzori region, where Kasese and Ntoroko are located, is highly vulnerable to climate hazards such as floods, landslides, and riverbank overflow, which have repeatedly damaged infrastructure, displaced communities, and disrupted essential services. These climate risks are exacerbated by cross-border security concerns, limiting access to reliable energy and hindering the delivery of critical healthcare services.

To improve health service resilience, the RCHCH-U project will install solar energy systems in selected health centers to ensure uninterrupted power for lighting, medical equipment, and communication devices. This intervention aligns with the project's broader objectives to enhance adaptive capacity, improve health outcomes, and promote sustainable energy solutions in line with SDGs 3 (Good Health and Well-Being) and 7 (Affordable and Clean Energy).

This Terms of Reference (ToR) outlines the scope, deliverables, and requirements for the design, supply, install, and commission solar photovoltaic systems at the following facilities;

- a) Mukathi HC III, Maliba Sub-County, Kasese District
- b) Bweramule HC III, Bweramule Sub-County, Ntoroko District

### **1.1 ASSESSED SOLAR NEEDS PER HEALTH CENTRE**

#### **1.1.1 Bweramule health center III**

##### **Main building**

The building comprises the laboratory, the store, maternity ward, screening area and other administrative offices. The building relies entirely on an insufficient off grid solar system which powers all the electric appliances in the entire building. The building requires:

- a. Solar PV array system including batteries, inverter and wiring
- b. Sixteen (16) internal lighting points
- c. Four (4) security lights

##### **Staff quarters**

The staff quarters buildings are three blocks each with four (4) rooms and have wiring but without a solar energy system supply. There are two (2) - one via water tanks designed to receive water from an underground water tank but without a water pump. The building requires;

- a. Solar PV array system
- b. Twelve (12) internal lighting points
- c. Eight (8) internal sockets
- d. Water pump

### **1.1.2 Mukathi health center II**

#### **Main building**

The building comprises the laboratory, the store, maternity ward, screening area and other administrative offices. The building relies both on-grid and off-grid power supply with the current energy demand higher than the existing supply. There is a non-functioning water pump that is expected to pump water from an underground tank to a raised water tank which supplies water to the main building. The building requires;

- a. Sufficient solar PV array system including batteries, inverter and wiring
- b. Water pump
- c. Eleven (11) internal lighting points
- d. Eight (8) internal sockets

#### **Inpatient ward**

The building currently accommodates ten (10) patient beds with two (2) dim bulbs. The building requires;

- a. Five (5) internal lighting points
- b. Five (5) internal sockets
- c. Four (4) security lighting points

## **2. OBJECTIVES OF THE ASSIGNMENT**

The main objective is to enhance the resilience and functionality of health centers in Kasese and Ntoroko districts by ensuring reliable, suitable energy for uninterrupted healthcare delivery.

The contractor will be required to:

- a. Review and analyze the needs assessment (attached) and prepare a thorough offer responding to these needs.
- b. Design and install two solar systems: an off-grid solar system at Bweramule Health Center and a grid-tied hybrid system at Mukathi Health Center to serve OPD, maternity wards and staff quarters with Lithium Batteries to ease maintenance by the health centres.
- c. Provide all necessary components, including solar panels, lithium-ion batteries, inverters, charge controllers, mounting structures, and all required safety and connectivity equipment compliant with Ugandan standards.
- d. Earthling- Grounding with stainless steel.
- e. Install Surge protectors to protect the electronic equipment in case lightning strikes.
- f. The system should abide by the area's environment and weather factors
- g. Provide a system that is sustainable in all 3 dimensions of sustainability being economic and meeting ecological and social standards (e.g. green production, local production, decent working conditions, less toxic batteries, recycling-possibilities)
- h. Provide a system that is both long lasting and easily repairable
- i. To provide transport and safety of the equipment from its own warehouse to the above-mentioned health centres.
- j. To assess the health center and provide recommendations to Environmental Alert at own cost.

- a) Commission both systems to full operational status, ensuring seamless integration with existing medical equipment and, for Mukathi HC, safe interconnection with the hydro grid.
- b) Formally hand over the systems to health center management, including providing comprehensive "as-built" drawings, system manuals, and hands-on operational training for designated staff.

### **3. KEY DELIVERABLES**

The Contractor shall be responsible for submitting the following tangible outputs as part of the contract fulfillment:

- a. Detailed Technical Proposal & Bill of Quantities (BOQ): A comprehensive document outlining the complete system design, component specifications (make, model, capacity), and a detailed itemized cost breakdown.
- b. Site Assessment Report: A pre-installation report confirming site suitability, shading analysis, and final load verification for each health center (at own cost)
- c. Installation Completion Certificate: A formal signed-off document confirming all equipment has been installed according to the approved design and relevant national standards.
- d. Commissioning & Testing Report: Documentation demonstrating successful system performance, including battery capacity tests, inverter output verification, and successful operation of all prioritized medical loads.
- e. Supply and install the system in 2 month's period (60 working days) after the date of signing the contractual agreement.
- f. Provide at least a one -year service level agreement for maintenance and provide at least 10year warranty for the system Solar panel and one year guarantee for batteries, inverter and other hard wares accessories provided.
- g. Operations and Maintenance (O&M) Manuals: User-friendly manuals for health center staff, including warranty details, troubleshooting guides, and a preventive maintenance schedule.
- h. Training Completion Report: Evidence of conducted training sessions for health center staff, including attendance lists and topics covered.

All deliverables shall be submitted in both hardcopy and softcopy (in an editable format).

### **4. GENERAL TIME SCHEDULE**

The Contractor shall adhere to the following schedule for the complete execution of the contract, from mobilization to final handover. All deadlines are mandatory.

<b>Activity</b>	<b>Duration/Deadline</b>
Contract Signing & Mobilization	Within 5 working days of award
Site Assessment & Final Design Submission	10 working days after mobilization
Delivery of All Materials to Site	Within 3 weeks of design approval
Installation & Civil Works	4 weeks
System Testing & Commissioning	1 week
Final Handover & Project Closeout	2 working days after successful commissioning
<b>Total Project Duration</b>	<b>2 months from contract signing</b>

## **5. REQUIREMENTS**

Interested and eligible contractors must submit the following information:

- a. Company profile i.e. the type of business engaged in, the Directors of the Company number of years in business, area/ locations of business, etc.
- b. Certified copy of the company's licenses to operate the business (company registration certificate, articles of incorporation).
- c. List of general installation works undertaken in the past five years with the names and addresses of client and contract amounts etc.
- d. A certified copy of certificate of incorporation with the URSB Stamp.
- e. Latest Financial Statements.
- f. Curriculum vitae for key personnel in the company
- g. Approval to contact referees

## **6. HOW TO APPLY:**

### **a) Submission Guidelines**

Environmental Alert invites eligible bidders to submit their Requests for Proposal for solar system installation works as fully described in this TORs.

#### **Questions/Request for Clarification:**

Any questions and/or requests for clarifications concerning this TORs must be submitted in writing via e-mail to [jacinta.nekesa@envalert.org](mailto:jacinta.nekesa@envalert.org) or [carolyne.kirabo@envalert.com](mailto:carolyne.kirabo@envalert.com).

The **Requests for Proposal shall be submitted in English** and typed on letter size A4 paper, single spaced with each page numbered consecutively and signed by an authorised person.

### **b) Submission deadline:**

Closing date and time: all responses to these ToRs must be received by Environmental Alert (EA) no later than **5.00 pm of 8<sup>th</sup> February 2026**, and submitted to EA in soft copies to [procurement@envalert.org](mailto:procurement@envalert.org) with copies to [jacinta.nekesa@envalert.org](mailto:jacinta.nekesa@envalert.org). Responses which are submitted late, are incomplete or do not fully respond to these ToRs may not be considered in the review process.

Environmental Alert reserves the right to reject any or all documents it received. And also assumes no obligation or responsibility whatsoever to compensate or indemnify the participating firms for any expenses or loss that may be incurred for the preparation of their documents for submission to EA. Submission of a Request for Proposal does not guarantee that an award will be made to any participating company.

## About Environment Alert

Environmental Alert (EA) is a Ugandan Non-Governmental Organisation that was founded in 1988 and since then, has been contributing to improved livelihoods and development in Uganda through several interventions in sustainable agriculture, environment, and natural resources management. EA is officially registered with the NGO Bureau as a Ugandan non-governmental organization, incorporated as a company limited by guarantee. EA is governed by an independent Board that is responsible for providing strategic oversight of the organization including ensuring its integrity as a voluntary service organization. Our **Vision**- *'Resilient and dignified communities, managing their environment and natural resources sustainably.'*

## About Südwind

**Südwind** has worked in development education and awareness raising for over 40 years. With a headquarter in Vienna and 7 regional offices in the provinces (ca 50 staff), it reaches out to local actors all over Austria. Südwind applies a unique international development expertise that it has acquired through both its education practice, particularly Global Learning ", and its awareness raising and campaign work. The diversity of Südwind's projects reflects the complexity of North-South relations, culturally, economically, environmentally, politically, and interpersonally.

Südwind is committed to environmentally, economically, and socially sustainable development, and implements projects through funding from a diverse range of donors, including ADA, the Ministry of Health and Social Affairs (BMSGPK) and the European Commission. With funding from BMSGPK Südwind works for many years on decent work and training for trade unionists and works council on decent work and to address other global challenges.