



Empowering Health Centers in Uganda

Terms of Reference to Supply and Install Solar systems in Kasonga Health Center Kikuube district and Maisuka Health Center Kibaale district for emPower Health Care Uganda Project (PHCU).

In cooperation with:



Funded by:

 Federal Ministry
Republic of Austria
Social Affairs, Health, Care
and Consumer Protection

Submit your Expression of Interest (EOI) to:

Environmental Alert.

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1.0. Background

Environmental Alert (EA) and [Südwind](#) are implementing a joint project titled, “emPower Health Care in Uganda Project” (PHCU). The project aims at supporting health centers in hard-to-reach areas and refugees’ settlements in Uganda – within the Albertine rift – that are faced with energy access limitation, which compromise effective delivery of health services to some of the hardest hit communities by COVID-19. By installing small-scale solar solutions, the two target refugee communities and two Ugandan communities will benefit from better health services delivery, this will lead to more reliable energy for lighting, heating, running computers, between households with the health centers and from health centers with key health care referral system in the district, conducting laboratory tests, refrigeration of immunization drugs, among others.

Through installing new capacity as well as the necessary infrastructure for energy storage (Batteries, solar panels, inverter etc.) the Health Centers (HCs) will dramatically increase their operations thereby servicing 75 % more patients in the community. At the same time the project will engage with stakeholders like duty bearers and CSOs on local, national, and international level. Combined with several awareness raising activities this will make sure that as many people as possible from the targeted communities are reached and informed about crucial services like reproductive health and measures to prevent or treat COVID-19.

It is against this background that Environmental Alert requires a reputable firm that will supply and install the required solar energy systems that will enable the achievements of the project objectives below and the needs of the beneficiary communities.

The tender procedure is based on national laws and designed in accordance with § 14 of the funding contract with the Austrian Ministry of Social Affairs and Health as well as Südwind Procurement Guidelines, and the Ugandan PPDA guidelines.

The specific objectives of Procuring the solar are to:

- a. To provide energy solutions to the energy challenges encountered at the beneficiary facilities of Kasonga and Maisuka Health centers.
- b. Increase the capacity of the health centers to handle medical conditions reporting.
- c. To extend the services of renewable energy in the hard-to-reach areas.

2.0. Assessed Solar Needs per Health Centre

2.1. Kasonga HC II _ Kikuube District

Outpatient

The outpatient department building is housed in an eight (8) roomed structure within which the laboratory, the store and other administrative offices are found. The building does not have any existing wiring therefore it requires:

- a. Eleven (8) internal lighting points

- b. Five (4) security lights
- c. Socket for a refrigerator
- d. Sockets for diagnosing equipment

Maternity Ward

The maternity building accommodates post-natal, Antiretroviral Therapy (Art) clinic, conference room, antenatal and pediatric departments as well as a store.

The facility requires replacement of the six (6) faulty batteries and the service of the system

Screening Area

The screening area which requires four (4) lights and a television set will be powered by the suggested system

Isolation area

The Isolation area mainly serve during outbreak of pandemics and is composed of three houses which are fully powered with solar. Out of these, one system is not working and needs to be re-installed.

2.2. Maisuka HC III_ Kibaale District

OPD

The outpatient department building is housed in a ten roomed structure within which the laboratory, the store, and other administrative offices are. The building is already wired though the solar system is nonfunctional. The building requires:

- a. Eleven (11) internal lighting points
- b. Five (5) security lights
- c. Socket for a refrigerator
- d. Sockets for diagnosing equipment

Maternity Ward

The maternity building accommodates post-natal, antenatal pediatric departments as well as a store

In total the facility requires:

- a. 13 internal lights
- b. 6 security lights
- c. Socket for Refrigerator

Staff Quarters

The staff quarters have an already existing system which is no longer functional therefore it requires:

- a. Nine (9) internal lighting points
- b. Five (5) security lights
- c. Socket for phone charging and radios.
- d. Sockets for refrigerators.

3.0. Tasks for the solar supplier

Definitions in this TORs:

“Relevant Standards” means (a) Lighting Africa's Lighting Global Minimum Quality Standards edition February 2014 as published by Lighting Africa and (b) Lighting Africa and Lighting Asia Recommended Performance Targets, dated June 2013 as published by Lighting Global.

“**System or Solar System**” means a solar Photovoltaic System, complete with all of its System Components.

“**System Components**” means all parts, fixtures and fitting required for the installation, operation and maintenance and, where specified for a Selected Institution the monitoring or metering of a System including without limitation batteries, charge controller, mounting frame, battery rack, inverter, photovoltaic module, circuit breakers, meter, remote monitoring System, cabling and wiring of the solar System.

EA is looking for a supplier who is eligible to supply and install a high quality, long-lasting solar system in the above-mentioned Health Centres, your responsibilities are as below:

- i. Analyzing the needs assessment (attached) and prepare a thorough offer responding to these needs.
- ii. Provide and install 5 full hybrid solar system to serve (2) OPD, (2) maternity ward and (1) staff quarters with Lithium Batteries to ease maintenance by the Health centres.
- i. Repair the existing solar system and the wiring at Kasonga Health centre.
- ii. Earthing- Grounding with stainless steel.
- iii. Install Surge protectors to protect the electronic equipment in case lightning strikes.
- iv. Install sockets for phone & radio charging, refrigeration, computers for every building.
- v. The system should abide by the area's environment and weather factors (in Kasonga the area is full of dust in dry season).
- vi. 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)
- vii. Provide a system that is both long lasting and easily repairable
- viii. Provide at least a one -year service level agreement for maintenance and provide at least 20year warranty for the system Solar panel and one year guarantee for batteries, inverter and other hard wares accessories provided.
- ix. Supply and install the system in 2 month's period (60 working days) after the date of signing the contractual agreement.
- x. Provide a 5-days comprehensive solar use & maintenance training (pertaining to the systems provided) for each health centre workers and community youths who will be

responsible in preventive operations and maintenance. All components of both configurations, proper usage of each configuration, due care of systems, early identification of system issues and will also provide all reference materials needed as well as training content to be used in sites in pdf format.

- xi. Provide a normal usage and troubleshooting of Systems. The provider to take site representatives in all Health centres on a walk through on normal usage of Systems, necessary steps in troubleshooting failed systems and emergency shut-off procedures
- xii. To provide transport and safety of the equipment from own warehouse to the above-mentioned health centres.
- xiii. To assess the health center and provide recommendations to EA at own cost.
- xiv. Report at every step taken in the process of selling off, installing, training and all after sales services provided.
- xv. Upon completion of installations, the supplier to transfer ownership to the health centers to EA staff and Health centers who will take responsibility of the System after declaring the System 'Unconditionally Accepted'.
- xvi. Should provide 2 references of similar work he has done from the past 3years.

The Needs assessment for each health center are attached at the end of this TORs.

4.0. Time for applying

EA recommends that the interested suppliers should send their quotations and references to EA in 21 days after the announcement has been aired on the 05th April 2022.

5.0. Application process

Interested applicants both national and international should send a detailed offer including prices per item and description of offered system and support including its advantages as soft copy and supporting information on procurement@envalert.org with cc to the Executive Director EA at lawrence.ssentongo@envalert.org.

Those delivering hard copies should bring them to EA offices in Kabalagala in working days not later than 29th April 2022 at 5:00pm.

The Needs Assessment report for Kasonga Health Center II



Kasonga.pdf

The Needs Assessment report for Maisuka health Center III



Maisuka 2.pdf