



Tanzania
CLIMATE ACTION NETWORK

**INVITATION
TO BID**

**SUPPLY AND
INSTALLATION
OF SOLAR
IRRIGATION
SYTEM**

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Invitation to Bid (ITB) No:	ITB/CANTZ/SIR/2021/01
Project No:	81267101
Project Name:	Enhancing the role of Solar Irrigation for Poverty Reduction Near Mt. Kilimanjaro
Location:	Mkombozi, Kilimambogo, and Ngosero Villages in Hai District, Kilimanjaro Region
Date of Issue:	Re Advertised on December 8, 2021
Funder:	Germany Government through GIZ



INVITATION FOR TENDER FOR SUPPLY, INSTALLATION AND START-UP OF SOLAR IRRIGATION SYSTEM AT MKOMBOZI, KILIMAMBOGO, AND NGOSERO VILLAGES

Climate Action Network Tanzania (CANTZ) is a non-Government member-based Organization working in Tanzania with primary focus on water resources management, renewable energy, low carbon development pathways, gender equality and climate financing.

With financial support of the Germany government through GIZ, CANTZ is implementing a project titled **“Enhancing the role of Solar Irrigation for Poverty Reduction Near Mt. Kilimanjaro”** project in Hai District-Kilimanjaro Region. This project aims at enabling the poor, marginalized and vulnerable smallholder farmers in three villages of Kilimambogo, Ngosero and Mkombozi located in the dry lowland plains of the southern part of Mt. Kilimanjaro to overcome the pervasive challenges of poverty, food insecurity, gender inequality and water use conflicts caused by lack of access to reliable and affordable water supply for irrigation, livestock and other domestic uses.

Successful implementation of this project would contribute to attainment of key national and international goals, objectives and targets including those under the Tanzania Vision 2025, 3rd Five Year Development goals, national climate change response strategy, and several targets under SDGs 1, 2,3,5, 6, 7,9 and 13. In turn the results of this project would lead to broader, far reaching and long-lasting outcomes including enhanced food security, resilience to climate shocks, increased jobs and incomes for youth and women and reduce conflicts between farmers and pastoralists.

To achieve this objective, the project is working to develop a solar powered irrigation system whereby boreholes drilled in each village are connected to a complete solar power system composed of PV modules, inverter, submersible pump and other essential parts. The solar system is then used to pump water from the ground to the above-ground water storage tank which then distributes water by gravity to the irrigation channels for farmers.

The work of drilling boreholes is currently on-going in the project villages and is expected to be completed soon. From the drilling results, water has been found at the depth of 80 meters, 100 meters and 150 meters in the 3 villages.

In order to keep with project timeline, CANTZ called for bid in October but the applicants did not reach minimum number to proceed with evaluation procedures. CAN-TZ therefore intends to engage a professional supplier and installer of solar power equipment to enable completion of this mission. This invitation therefore serves to re-invite all qualified suppliers (firms are



preferred) to bid as instructed table 2 and 3 below. Because of changes in specified requirements, the former applicants will be required to re-apply during this re-advertisement and will be evaluated as new applicants under similar criteria.

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by 16th December 2021. All documents should be submitted in a soft copy and sent to admin@cantz.or.tz, copy to erneus@cantz.or.tz and wande@cantz.or.tz with the email subject as **“BID – SOLAR IRRIGATION SYSTEM EQUIPMENT”**

Whenever possible, please include a page showing your experience with pictures and contacts of your current customers.

Sincerely,

Projects Administration unit



SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS/BILL OF QUANTITIES AND RELATED DETAILS

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A. Table 1: Solar Power Equipment Specifications

S/n	Item	Description	Quantity
	Solar pump	Solar pump with capacity to operate at the depth of 80 meters, 100 meter and 150 meters below ground and 30 meters above ground (i.e., 180 m height)	3 pumps
	Monocrystalline/Polycrystalline solar panels	Panels with capacity to operate the solar pump with above specified depth in (1) above	
	Accessories (conduit pipes, insulation tapes, earth wire, cable wire, 1" class B water pipes)	Accessories should fit the capacity of solar pump and solar panels specified above (in 1&2)	
	4-core 4mm2 submersible drop cable	200 meters	3 cables
	Poly pipes	Class B- 200 meters	3 pipes
	Safety rope	180 meters	3 ropes
	Motor driver	Motor driver with capacity to operate specified water pump	
	Fencing of the powerhouse		
	Any other essential parts/accessories deemed necessary to enhance performance and sustainability of the boreholes and water supply.		



B. Table 2: Price Schedule Form

Name of a bidder (Company)	
Address	
Date of bid submission	

- The Bidder is required to prepare the Price Schedule following the below format.
- The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided.
- Bidders shall price their bids based on the details presented in Table 1. All prices quoted shall include loading/unloading, insurance, transportation to final destination, installation, initial start-up and training.
- All prices quoted shall be in TZS and shall be inclusive of all taxes (e.g. customs duties, VAT etc.).
- Bidder is required to specify detailed description of offered product by providing model, brand and technical parameters.
- CAN-TZ will award the contract to one or more Bidders, who will present the lowest priced offers of the technically qualified/responsive Bids for each lot. You may show the location of already existing projects for the purpose of CAN-TZ to visit.

C. Table 3: Price Schedule

Equipment	Brand and model	Technical parameters	Proposed price
Solar pump			
Monocrystalline solar panels			
Accessories (conduit pipes, insulation tapes, earth wire, cable tire, 1" class B water pipes)			
4-core 4mm ² submersible drop cable			
Poly pipes			
Safety rope			
Motor driver			



Name of Bidder (Company): _____

Authorized signature: _____

Name of authorized signatory: _____

D. Time frame

Accordingly, successful bidder will be required to mobilize immediately and complete installation of the solar power systems in all 3 villages within three weeks (i.e. 21 calendar days). In this regard, counting will begin after signing of the contract by both parties

E. Bidding cost

The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. CAN-TZ shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.

F. Bids amendment

CAN-TZ may, for some reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders. If the amendment is significant, CAN-TZ may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.

G. Opening of the bid

CAN-TZ will open the Bid in the presence of an ad-hoc committee formed by CANTZ.. The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as CANTZ may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders. In the case of e-Tendering submission, bidders will receive notification by emails once the Bid is opened.

H. Evaluation of Bids

CAN-TZ will conduct the evaluation solely on the basis of the Bids received. Evaluation of Bids shall be undertaken in the following steps:

- a). Preliminary Examination including Eligibility
- b). Arithmetical check and ranking of bidders who passed preliminary examination by price.
- c). Qualification assessment (if pre-qualification was not done)
- d). Evaluation of Technical Bids
- e). Evaluation of prices

Detailed evaluation will focus on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary