

## REQUEST FOR EXPRESSION OF INTEREST

### Consultant for Renewable Energy Project

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**Submission date:** 10<sup>th</sup> Dec 2021

**Country:** Tanzania

The Revolutionary Government of Zanzibar, through the Zanzibar Electricity Company-ZECO, is seeking the development of a Battery Energy Storage System (BESS) and a Solar PV power plant (PV) on the island of Unguja. As a preliminary step, ZECO is selecting a General Consultant to assist and accompany in preparation of the projects, from feasibility studies to construction and O&M supervision. These assets will be financed under the Zanzibar Energy Sector Transformation and Access Project (ZESTA) financed by the International Development Association (IDA) and the Clean Technology Fund (CTF).

#### **Solar and BESS Background**

The project will finance the design, construction, and initial operation of the proposed greenfield solar PV power generation plant. The plant rating will be between 18 MWp and will be constructed in Makunduchi, at one of the three sites already identified and owned by RGoZ for RE development.

A technical study to analyze optimal VRE integration and grid optimization for Unguja, has identified the feasibility of about 40MWh of battery storage, as a part of the least cost supply expansion plan. Detailed specifications, sizing, location, and the O&M contractual structure will be finalized during project implementation.

#### **Scope of Work**

The objective of the assignment is to support ZECO on the full implementation of the two described components (BESS and PV plant). This assessment will include two main blocks:

- I. Tasks 1 to 5: Preparation and pre-construction works (To be implemented by Lump Sum Contract).
  - a. Feasibility studies for BESS and PV plant
  - b. Bidding process for preparatory works, including bidding documents and evaluation
  - c. Supervision of preparatory works by the selected contractors
  - d. Bidding process assistance for BESS and PV plant implementation, including bidding documents and evaluation
- II. Task 6: Owner's Engineer mission (Contract Management and Post Construction works) (To be Implemented by Time Based Contract)

#### **Eligibility Requirement:**

A. Core Business and year in Business

The consultant shall be a firm of proven experience in the design and construction of the solar PV Generation Plant and Battery Energy Storage System (BESS)

B. Relevant similar experience, which should specifically include the below:

The firm should have at least ten (10) years of experience in power plant design and construction including plant design and construction including five years' site experience of solar power plant construction and Battery Energy Storage System (BESS). The firm should have good experience on PV standards and proven experience on resource assessment and calculation of energy yield for solar PV projects. Experience in at least one (1) developing country with similar conditions like Tanzania

C. Technical and Managerial capability of the firm in the areas of:

- (i) PV Plant and BESS design and installation and construction supervision,
- (ii) BESS standards and proven experience on BESS use cases, BESS warranties and performance and O&M,
- (iii) Grid stability analysis and renewable integration planning,
- (iv) assessment and management of environmental and social safeguards for the infrastructure and energy projects; and
- (v) project and contract management.

For more information please email: [info@tenderingproject.es](mailto:info@tenderingproject.es)