

EXPRESSION OF INTEREST
GARISSA 54.6MW SOLAR POWER PLANT
132kV SUBSTATION FIRE DETECTION & SUPPRESSION SYSTEM

EOI No. RFX 1000000502

TERMS OF REFERENCE

1.0 Background

The Rural Electrification and Renewable Energy Corporation (REREC), formerly Rural Electrification Authority (REA), is a state corporation established under Section 43 of the Energy Act, 2019. The Corporation's main mandate is to promote renewable energy and accelerate rural electrification throughout the country in order to provide electricity to all Kenyans as well as contribute towards sustainable socio-economic development of the country in the attainment of Vision 2030 and Big 4 agenda. The specific functions of the Corporation are articulated in Section 43 of the Act.

The Corporation has developed a 54.6MW grid connected solar power plant located in Garissa County, approximately 15Km North of Garissa Town. The plant sits on 85 hectares (210 acres). The power plant is a Government project which is run and operated by REREC. The plant consists of 206,272 solar PV panels rated at 265WP connected in 33 arrays. Power generated at the plant is evacuated to the grid through a 132kV substation which seats on approximates 45 x 42M area. The main equipment at the 132kV substation include:

- i) 33/132kV 50MVA Transformer
- ii) 10MVAR Static voltage generator
- iii) 132kV Current transformer
- iv) 132kV Voltage transformer
- v) 33/11kV SVG System Transformer

Towards this end, REREC is therefore seeking to recruit a contractor for design, supply, installation, testing and commissioning of fire detection and suppression system to covering the entire 132kV substation. The contractor shall be expected to present a design proposal using the latest available technology in the market and in conformity with the relevant technical standards, specifications, protocols and regulations and shall be required to demonstrate professional, technical and financial competency to undertake the works under the terms and conditions as shall be set forth herein and in the contract.

2.0 Main Objective

The objective of the contract is to design, supply, install, test and commission a fire detection & suppression system for the 132kV substation at the Garissa 54.6MW solar power plant to ensure maximum protection of the existing equipment against fire.

3.0. Scope of Work

The Contractor will be required to carry out the following tasks/activities:

- a. Carry out a detailed design of fire detection & suppression system including interfacing with the existing safety and security installations in the plant.
- b. Provide itemized Bill of quantities for the proposed system
- c. Supply, install, test and commission all equipment and components required for the effective operation of the fire detection & suppression system
- d. Supply and delivery of all consumables and spares required for the operation of the system for a period of one year
- e. User training on operation and maintenance
- f. Labeling of the system and all associated components
- g. Providing as-build drawing

4.0 E-Procurement system

1. All candidates will require access to REREC SAP SRM portal and have set up their page. Please ensure compliance to the following
 - a) Each company must have two user accounts; **Admin Account** and **Employee Account**. Ensure that the following roles are NOT ASSIGNED to the employee; Employee Administrator and Supplier Master Data manager.
 - b) Ensure that the admin account and employee account does not share same email address.
 - c) Ensure that the Employee user name is between **4 and 12 characters**.
 - d) It is a Mandatory requirement that all Bid Documents/Responses be uploaded to the **COLLABORATION ROOM** in the link with “**RFX Response Number: Company Name**”. Bidders shall not attach their documents at any other Tab of the Portal. Attachments placed elsewhere in the portal shall be declared non-compliant and will not be evaluated.
 - e) **Online Price** quotation will not be required for this Tender.
 - f) For the purpose of this tender bidding, the employee account shall be used to submit your RFX responses. Bidders who require clarification from our office should do so strictly 7 days before tender closing.
2. Completed Tenders are to be saved as PDF documents marked with the Tender Number and Description and submitted through the REREC E-Procurement Web Portal found on the REREC website (www.rea.co.ke) so as to be received on or before submission deadline on **12th November 2020**.
3. Tenders will be opened electronically promptly thereafter in REREC Procurement Office at Kawi House, Ground Floor. Opening schedule will be sent electronically to all the bidders who participated in the tender.
4. Interested bidders are advised to visit the Corporation’s website, homepage, Information Centre, SAP SRM Document, SAP SRM Supplier User Guide for registration and creation of their portal and Supplier Bidding Quick Reference Guide for submitting their response.

CHIEF EXECUTIVE OFFICER
RURAL ELECTRIFICATION & RENEWABLE ENERGY CORPORATION