

Terms of Reference (TOR) for Solar Plant Upgrade in IRC Dadaab Field.

Locations: Dadaab Field Office

Client: International Rescue Committee (IRC)

1. Introduction

The International Rescue Committee, hereinafter referred to as “the IRC”, is a non-profit, humanitarian agency that provides relief, rehabilitation, protection, resettlement services, and advocacy for refugees, displaced persons and victims of oppression and violent conflict. In Kenya IRC has its ground in Kakuma and Dadaab refugee camps, Lodwar and the main offices in merchant square building, Nairobi.

2. Background

The International Rescue Committee (IRC) is committed to increasing the use of renewable energy solutions to improve operational efficiency, reduce operational costs, and minimize environmental impact across its field operations. IRC is currently served by an 80kw solar plant that primarily runs the entire facility backed by a 150Kva standby generator. IRC is exploring to upgrade the existing 80kwp solar plant with an additional 80Kw plant at Dadaab field with the view of sustain the growing power demands.

3. Objectives of the Vendor

Specific objectives are to:

- Contractor must make site visits withing the scheduled time frames for familiarization.
- Implement technical designs aligned with IRC operational needs and applicable standards upon field visit
- Upgrade and reconfigure the existing solar hybrid system to a safe, code-compliant, maintainable 107 kWp ground-mount system + 184.32 kWh storage.
- Install 80Kw inverter and integrate with the existing inverter via smart communication protocols
- Ensure compliance with IEC standards and Kenya Electrical Wiring Regulations (Cap 314A).

4. Scope of Work

The scope of work shall include;

- Supply and install new 107 kWp ground-mount solar array as stipulated in the BOQ specifications to Dadaab Field.
- Supply and install Deye 80 kW hybrid inverter and 184.32 kWh battery bank in Dadaab field.
- Integrate the new solar plant to the existing solar plant for maximum performance and load sharing.
- Monitoring and Document the project including commissioning, availing single line diagrams, test reports, delivering operational manuals and staff training.

5. Required Qualifications and Experience

The contracting firm should demonstrate:

- Valid NCA registration certificate with at least NCA 6
- Personnel with at least a degree in Electrical Engineering, Renewable Energy, or a related field.
- At least seven years of proven experience in solar PV system design, electrical works and implementation. (Attach CV)
- Demonstrated experience with systems above 80 kW, preferably in humanitarian or remote settings.
- Knowledge of applicable international and Kenyan electrical and safety standards i.e. EPRA, NEC and BS 7671 (IET Wiring Regulations)
- Proof of certified technicians with a minimum diploma in electrical engineering with at least T3 or C1 EPRA certification.
- Proof of membership from professional bodies preferably EBK, KETRB or IEK.
- Proof of successfully completed projects from reputable clients or testimonials and their contacts

6. Payment Schedule

Payments will be milestone-based and linked to acceptance of agreed deliverables, as outlined in the contract.

7. Application Requirements

Interested consultants should submit all requirements as stipulated in the advertised RFP document.

International Rescue Committee reserves the right to accept or reject any proposal without obligation.