**Annex 1B-Terms of Reference for Solar Installation works in Dadaab**

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| **Date**: 10th June,2025 |
| **Department:** Construction |
| **Work**: RFP for restoration of solar system in IRC compound, Hagadera |
| **Location**: Hagadera |

**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.

Due to the insufficient solar power in Dadaab and Kakuma resulting from faulty systems and insufficient capacity, IRC seeks to invite capable contractors to provide designs and proposals in the two field sites to meet the desired state, which is, facilities fully powered by solar system. The installation of the solar system is driven by the need for an efficient, economical and sustainable source of electric power.

**CURRENT STATUS**

Currently, Dadaab IRC compound is made of 4 sets of facilities which includes.

1. 95 staff accommodation houses, which are bedsitters. The power usage is generally lighting for the main room and washroom; sockets outlets used for charging and powering fans.
2. Cafeteria and kitchen. The cafeteria is two stories with ground floor and first floor halls. The power outlets are lighting points, sockets. There are also fridges in the kitchen.
3. Offices blocks comprising of 18 offices and a warehouse. Main use of power includes operating printers, charging and lighting. The warehouse contains a cold room for storage of drugs and various fridges.
4. Hospital facility comprising of a maternity block, theater, female ward, male ward, pediatric ward and a stabilization center. We also have outpatient and in-patient pharmacies, the outpatient department, TB block and a laboratory. The maternity, wards and theater operate throughout and all the OPD facilities operate daily from 8am-5pm.

Presently the full plant system comprises:

1. 10kW SMA ac-coupled solar system: This system consists of 2No. 5kW SMA Sunny Boy inverters and a 10kW Sunny Island Battery inverter. It currently serves only cafeteria loads.
2. 4.5KW solar system connected to 2no. 3kw outback inverters serving the maternity. This system is currently not functioning as the batteries connected to it are damaged

The rest of the facility is being powered by 100 kva and 7kva and the power need is approximately 65KW. The interested contractors and expected to take all this into consideration with a flexibility of 20% to meet increased energy demand without the need for immediate system upgrades.

**QUALIFICATIONS OF CONTRACTORS INVITED FOR RFP**

1. contractors must possess a Class SC4 license issued by the Energy and Petroleum Regulatory Authority (EPRA).
2. The contractor should employ a Class ST4 technician, who is certified to handle solar PV installations.
3. Contractors should have a proven track record in designing, supplying, installing, testing, and commissioning solar PV systems.
4. Submission of a portfolio detailing previous projects, including project scope, capacity (in kilowatts), and client references, is recommended.
5. The contractor's team should include certified solar technicians and engineers with relevant training and experience in solar PV systems.
6. All installations must comply with the Energy (Solar Photovoltaic) Regulations, 2019, and any other applicable laws and standards in Kenya.
7. Clear terms outline the warranty period for both equipment and installation services.
8. Availability of post-installation maintenance and support services, including response times and service level agreements.

**OBJECTIVES**

1. To perform assessment of the status of the solar system including the batteries, solar panels, cable connections, inverter, and control panels.
2. Designing the solar system capacity based on the need that will be sufficient to serve the facility.
3. To provide technical advice, based on the solar engineer assessment of the present and future electrical needs of the facility.
4. To do a quotation for the work that will be needed to get the solar system fully operational and sufficiently.
5. To provide a quotation for annual maintenance of the solar system.

**ITINERARY**

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| **Activity** | **Date**  24th June,2025 | **Party concerned** |
| Arrival at Hagadera Compound | 9.30am | All interested contractors |
| Assessment of the facility and tour around the solar panels and battery store | 9.30am-10:30am | Supply chain manager, construction Assistant, contractors |
| Assessment of facility need based on electrical power usage | 10:30am-1.00pm | Supply chain manager, Construction assistant, contractors |

**It is important to note the following**

1. The contractors will facilitate their own movement to and from the facility.
2. The contract representative coming for the site visit must be qualified technicians who can do thorough assessment of the desired capacity.
3. Technicians are expected to come with their tools of measurement for the assessment.