**Terms of Reference for Solar Installation works in Kakuma**

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| **Date**: 10th June,2025 |
| **Department:** Constructions. |
| **Work**: RFP for restoration of solar system in clinic 7 |
| **Location**: Kakuma |

**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**

**Kakuma Amusait hospital currently comprises of the following buildings**

1. The administration block consists of 3 offices and a boardroom. All of them have AC and fans for temperature regulation
2. Emergency department-sockets outlets and lighting
3. Laboratory- sockets outlets and lighting
4. Outpatient block- sockets outlets and lighting
5. Outpatient and in-patient pharmacies- sockets outlets, AC sand lighting
6. ANC block- sockets outlets and lighting
7. Female ward, SC ward, pediatric ward- sockets outlets and lighting
8. Maternity ward and theater which has sockets outlets and lighting and some medical equipment as will be observed during the site visit.
9. Isolation ward- sockets outlets and lighting
10. Former eye clinic block- sockets outlets, Acs and lighting
11. Drug warehouse- power usage includes a cold chain and 5 ACs
12. Two security offices - sockets outlets and lighting
13. Generator house- sockets outlets and lighting

Presently, the solar system is comprising of 372 solar panels each with a capacity of 250W and 72 batteries which are no longer working. The facility is currently being served by 100kva genset at and 250kva genset alternating. The goal of the RFP is to restore the solar system to be fully functional and sufficient for the current power need which is about 40-45KW. 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. To design the battery 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 Kakuma Compound 1 at 9.00am | 9.30am | All interested contractors |
| Movement to Clinic 7 hospital | 9:30am-10am | Supply chain manager, construction manager and contractors |
| Assessment of the facility and tour around the solar panels and battery store | 10am-11:30am | Supply chain manager, construction manager, electricians, contractors |
| Assessment of facility need based on electrical power usage | 11:30am-1.00pm | Supply chain manager, Construction manager, electricians, contractors |

**NOTES:**

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.