

## Request for Proposal (RFP)

### Procurement of Cold Room Facility and Container-Mounted Solar Panel Systems Issued by: CAMS Engineering PLC

#### 1. Introduction

CAMS Engineering PLC, under the IAP-supported project, invites qualified suppliers to submit proposals for the supply, delivery, and installation of the following lots:

- **Lot 1:** Modular/Containerized Cold Room Facility
- **Lot 2:** Container-Mounted Solar Panel Systems (includes Part A and Part B)

Suppliers may submit proposals for **Lot 1, Lot 2, or both lots**. However, **lots may not be split**; each lot must be quoted and delivered as a complete package.

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#### 2. Scope of Supply

##### Lot 1: Modular/Containerized Cold Room Facility

- **Design:** Modular cold room facility, optionally containerized for ease of mobility and rapid deployment.
- **Size:** Outside: 2.6m (H) x 9m (L) x 2.2m (W)
- **Panels:** High-density PUR insulation core, 100mm thickness,  $\lambda = 0.02$  W/(m • K), density 40kg/m<sup>3</sup>, flame retardant rating B2.
- **Wall & Ceiling:** PPGI coating, polyester finish, silicone sealing, embossed aluminum wall, optional (2mm, 0.5m high)
- **Floor:** Two layers XPS (50mm each) with waterproof film.
- **Doors:** Sliding or swing door, polyurethane-injected, PVC finishing frame, stainless-steel accessories, EPDM gaskets, lockable. Size: 1.8m (H) x 2.1m (W)

- **Accessories:** Ceiling fixtures, hanger rods, wire rope, mushroom head fasteners.
  - **Operating Temperature:**  $\sim 2^{\circ}$  C, suitable for agricultural produce storage.
  - **Mobility Requirement:** Modular and/or containerized structure must allow relocation with standard transport equipment.
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## Lot 2: Container-Mounted Solar Panel Systems

This lot includes two system types that must be quoted as a package:

### Part A: Standard System

- Daily Energy Requirement:  $\sim 19.83$  kWh/day
- Panel Capacity: 4.76 kW ( $9 \times 540$  W monocrystalline panels)
- Inverter:  $\geq 5$  kW hybrid inverter with MPPT
- Charge Controller:  $\geq 150$ V / 60A MPPT
- Battery: 48V LFP battery ( $\sim 25 - 30$  kWh usable, 1-day autonomy)
- Mounting: Fixed tilt, structural anchoring, container-mounted
- Monitoring: Remote monitoring (Wi-Fi/GPRS enabled)
- Warranty: 25 years performance (panels), 10 years product

### Part B: Double-Capacity System

- Daily Energy Requirement:  $\sim 39.65$  kWh/day
- Panel Capacity: 9.52 kW ( $18 \times 540$  W monocrystalline panels)
- Inverter:  $\geq 10$  kW hybrid inverter with MPPT
- Charge Controller:  $\geq 300$ V / 120A MPPT
- Battery: 48V LFP battery ( $\sim 50 - 60$  kWh usable, 1-day autonomy)
- Mounting: Fixed tilt, structural anchoring, container-mounted
- Monitoring: Remote monitoring (Wi-Fi/GPRS enabled)

- Warranty: 25 years performance (panels), 10 years product

**Note:** Lot 2 must be quoted and delivered as a complete lot covering both Part A and Part B. Suppliers may not split Lot 2 into subparts.

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### **3. Proposal Requirements**

Suppliers must provide:

#### **1. Technical Proposal**

- Compliance with specifications for Lot 1 and/or Lot 2.
- Installation methodology and timeline.
- After-sales support and spare parts availability.
- Relevant certifications (ISO, IEC, CE/UL, etc.).

#### **2. Financial Proposal**

- Itemized cost breakdown (supply, delivery, installation).
- Currency in USD.
- Validity of quotation (minimum 60 days).

#### **3. Company Credentials**

- Business registration/license.
  - Experience supplying cold rooms/solar systems in East Africa.
  - References from past clients.
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### **4. Evaluation Criteria**

Proposals will be evaluated on:

- Price Competitiveness (40%)
- Technical Compliance (30%)
- Warranty & After-Sales Support (20%)

- Delivery/Installation Time (10%)
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## 5. Submission Instructions

- **Deadline:** Oct 15, 2025
  - **Submission Format:** Proposals must be submitted electronically to *camsengineeringplc@gmail.com* with subject line: “*RFP - Cold Room & Solar Systems*”.
  - **Clarifications:** Direct questions to CAMS Procurement Unit by Oct 10, 2025
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## 6. Compliance Requirements

- Suppliers must not appear on the **UN Sanctions List** or the **World Bank Debarred Firms List**.
  - CAMS reserves the right to reject incomplete or non-compliant proposals.
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## 7. Timeline,

- RFP Issue Date: Oct 08, 2025
  - Clarification Deadline: Oct 10, 2025
  - Proposal Submission Deadline: Oct 15, 2025 up to 12:00 am EAT
  - Opening Oct 15, 2025 at 1.00 pm EAT
  - Evaluation & Award Notification: Oct 16, 2025
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## 8. Contact Information

CAMS Engineering PLC

Procurement

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Note: CAMES Engineering Plc reserves the right to accept or reject any or all bids, **or to cancel the tender entirely if a more preferred option becomes available**, without assigning any reason.