### **Cold storage Room Technical specification:**

### 1. Solar System Components

- Solar Panels:
  - 8x monocrystalline panels
  - 580W each (total: 4.64 kW)
  - Mounted on aluminum frame, roof-tilted
- Battery System:
  - 1x lithium battery 10 kWh capacity
  - Wall-mounted on Battery Metal RAK
  - Connected using Battery Cable
- Inverter:
  - 1x Hybrid Inverter 6000W (6kW)
  - Supports solar + battery + optional grid/generator
- Breakers:
  - 1x DC Breaker 500V (for panel/battery protection)
  - 1x AC Breaker 230V (for load protection)
- Wiring & Accessories:
  - Wires: 2x 4mm<sup>2</sup> solar-rated copper wire
  - Connectors: MC4 connectors
- Cable Management:
  - Clipper
  - Wire tape
  - Cable trance (tray)
  - Nile clips

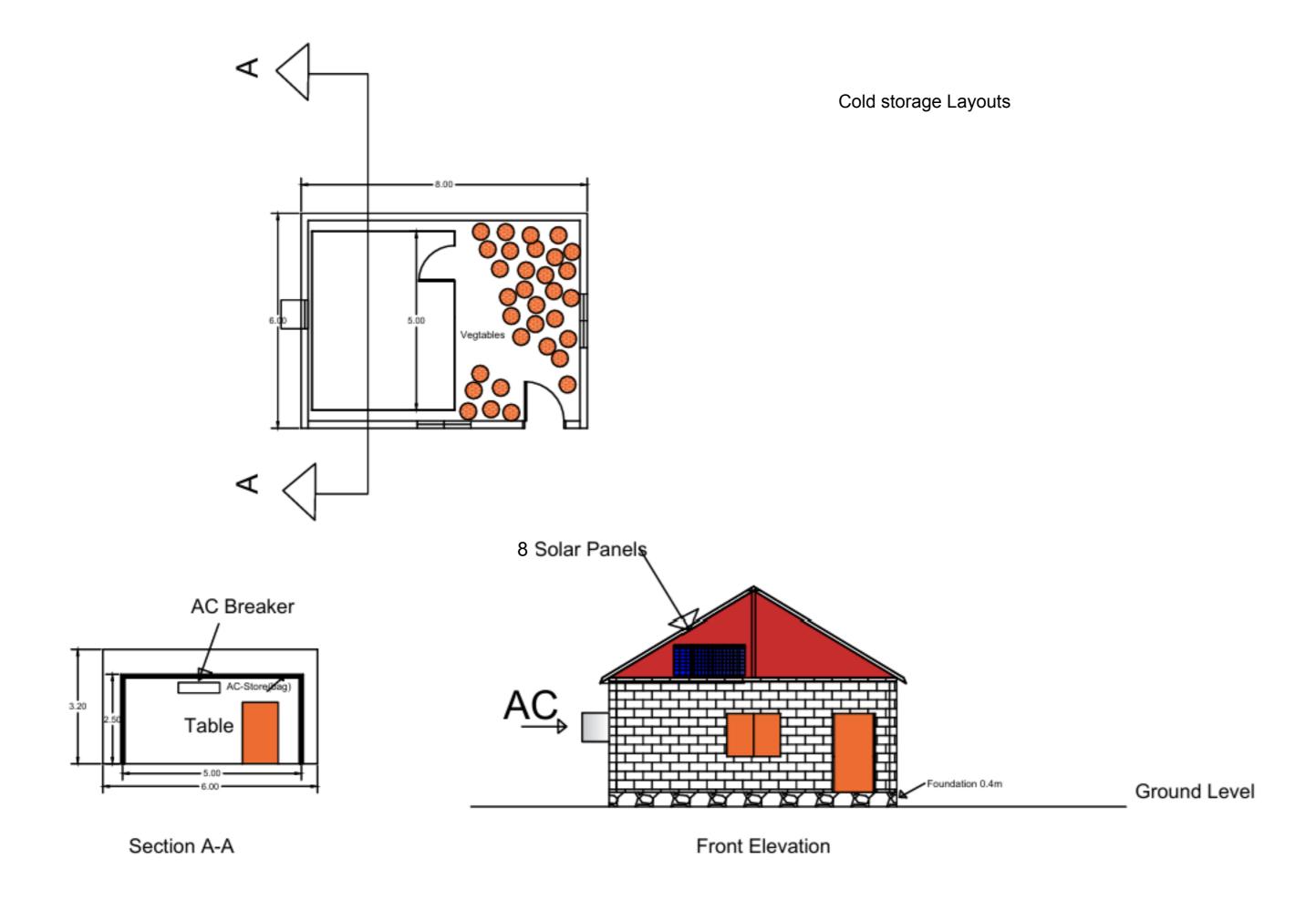
## 2. Air Conditioning System (Solar-Powered)

#### - Air Conditioner:

- 1.5 Ton wall-mounted split unit (~5.3 kW)
- Installed inside 4x4m solar sub-section
- Powered directly from inverter and battery system

#### 3. Installation Summary

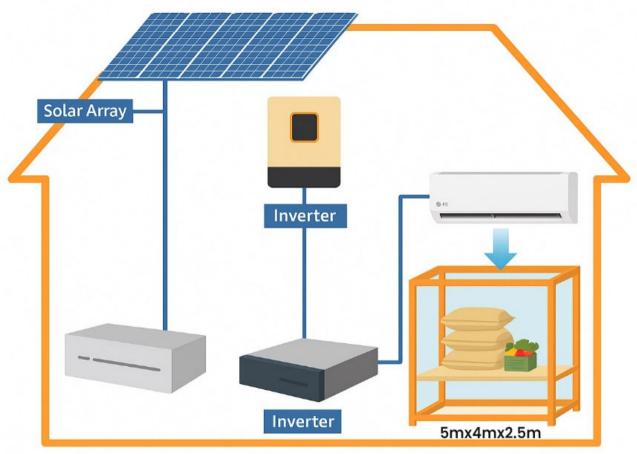
- Solar panels mounted on roof using aluminum frame
- Cable routed with cable trays and clips for safety and organization
- Battery and inverter installed on RAK, mounted on sub-room wall
- Greenhouse Polyethylene Plastic Film, to Keep Cold room temp.
- The air conditioner is integrated into a solar-powered load system.



# Information

Table

Table height=2.5m Table width=4m Table length=5m



# 6m x 8m STORAGE ROOM

for agricultural crop storage

