🔧 Assumptions

Panel Length (m)

1.60 − +

Panel Width (m)

1.00 − +

Installation cost per kW (₹)

70000 − +

Energy price per kWh (₹)

8 − +

Annual kWh output per kW

1200 − +

🌞 AI Rooftop Solar Analysis with SAM,

Upload Rooftop Image (JPEG/PNG)

Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG

my_rooftop_image.jpeg 46.2KB

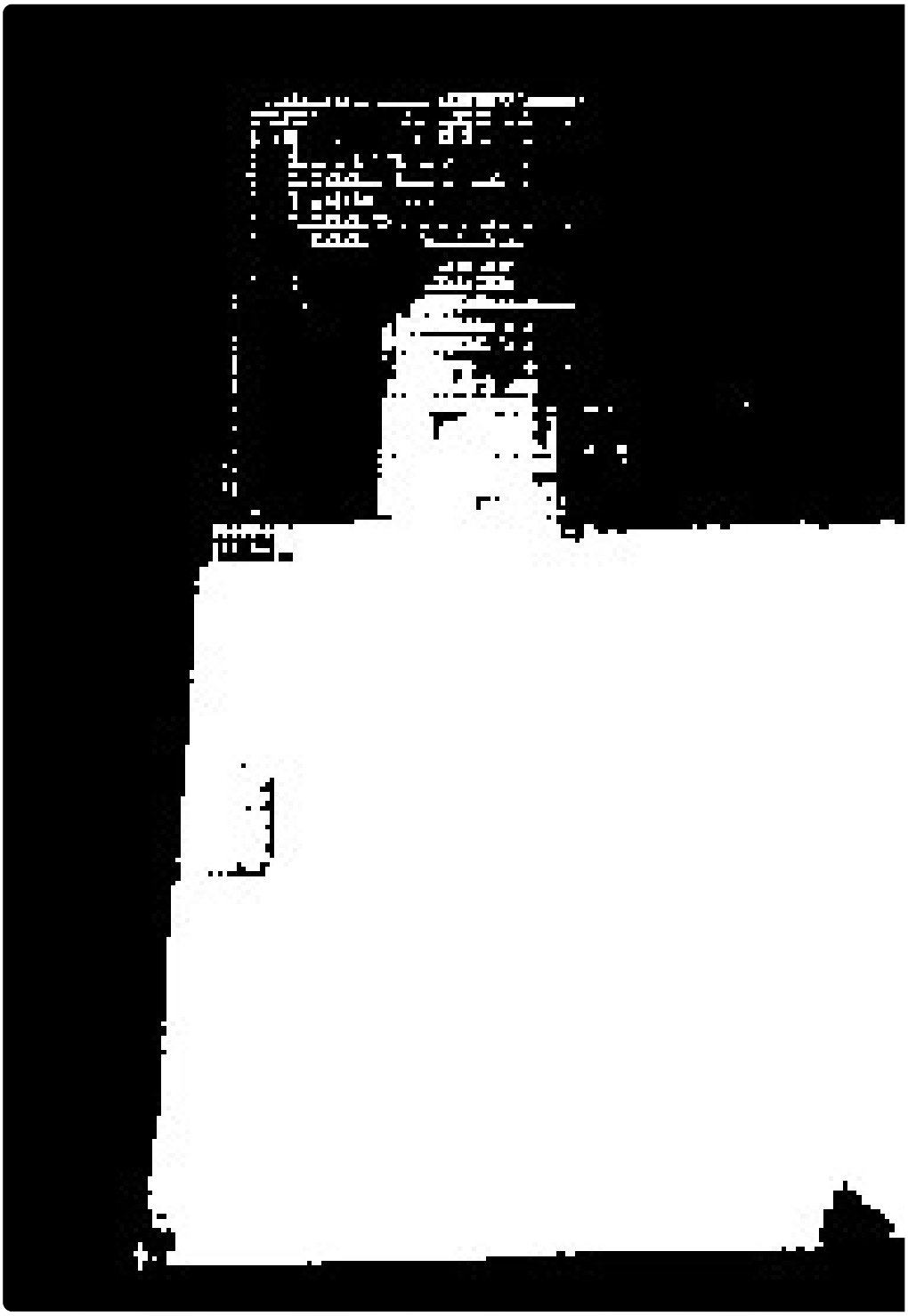
Uploaded Image

🔍 Verifying scene with CLIP...

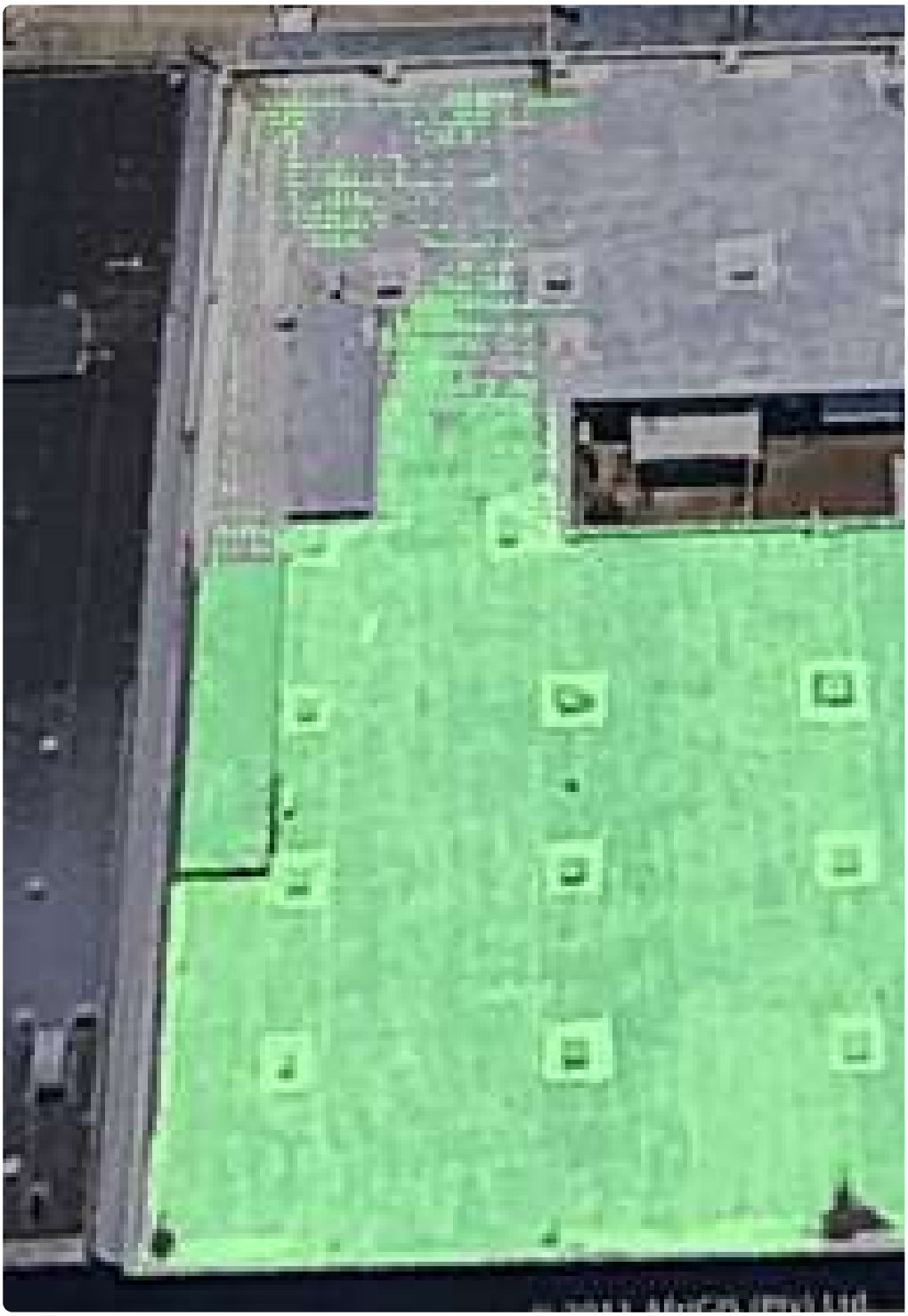
✅ Scene verified as rooftop.

🔍 Running rooftop segmentation with SAM...

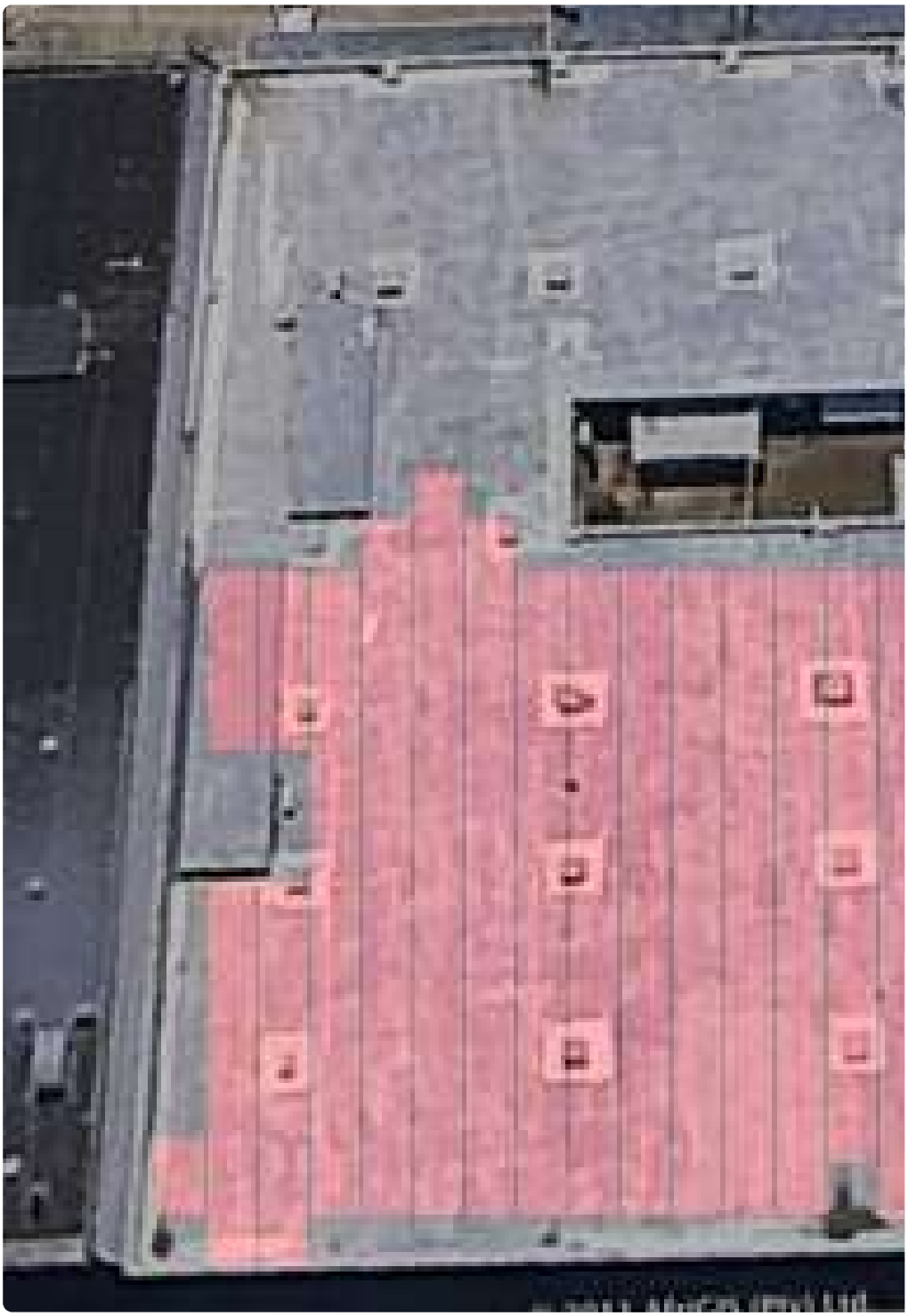
🧠 Detecting obstacles with YOLO...



Rooftop Mask (with obstacles filtered)



Overlay of Mask on Image

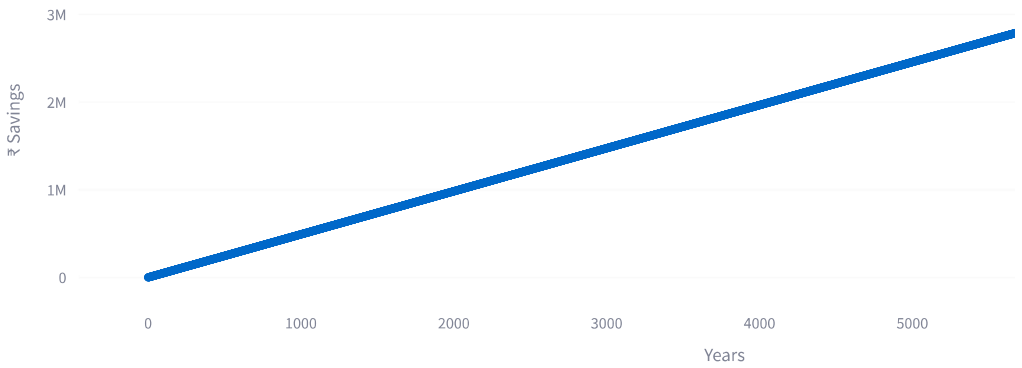


Solar Panel Layout

🌼 Solar Feasibility Report Summary

- **Usable Area:** 332.80 m^2
- **Estimated Solar Capacity:** 51.20 kW
- **Installation Cost:** ₹3,584,000
- **Annual Savings:** ₹492
- **Payback Period:** 7291.7 years

Projected Savings Over Years



Detected Obstacles

Download Report (CSV)

Download PDF Report

Solar Assessment Summary

Based on the analysis, approximately **332.8 m²** of rooftop is usable for solar panel installation. This can support ab **61440 kWh/year**. Estimated annual savings are **₹492**, with a payback period of **7291.7 years**. For best results, instal **facing** areas.