

Structure

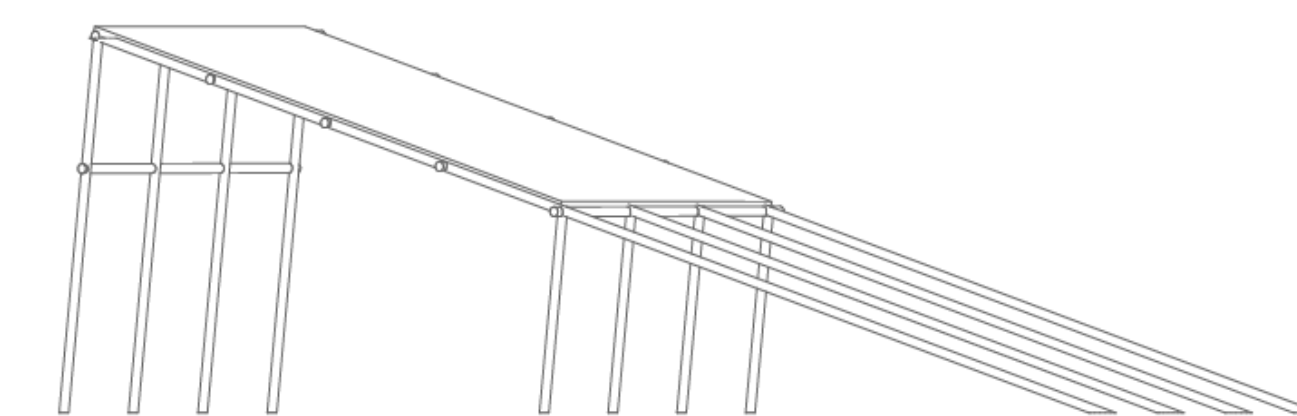
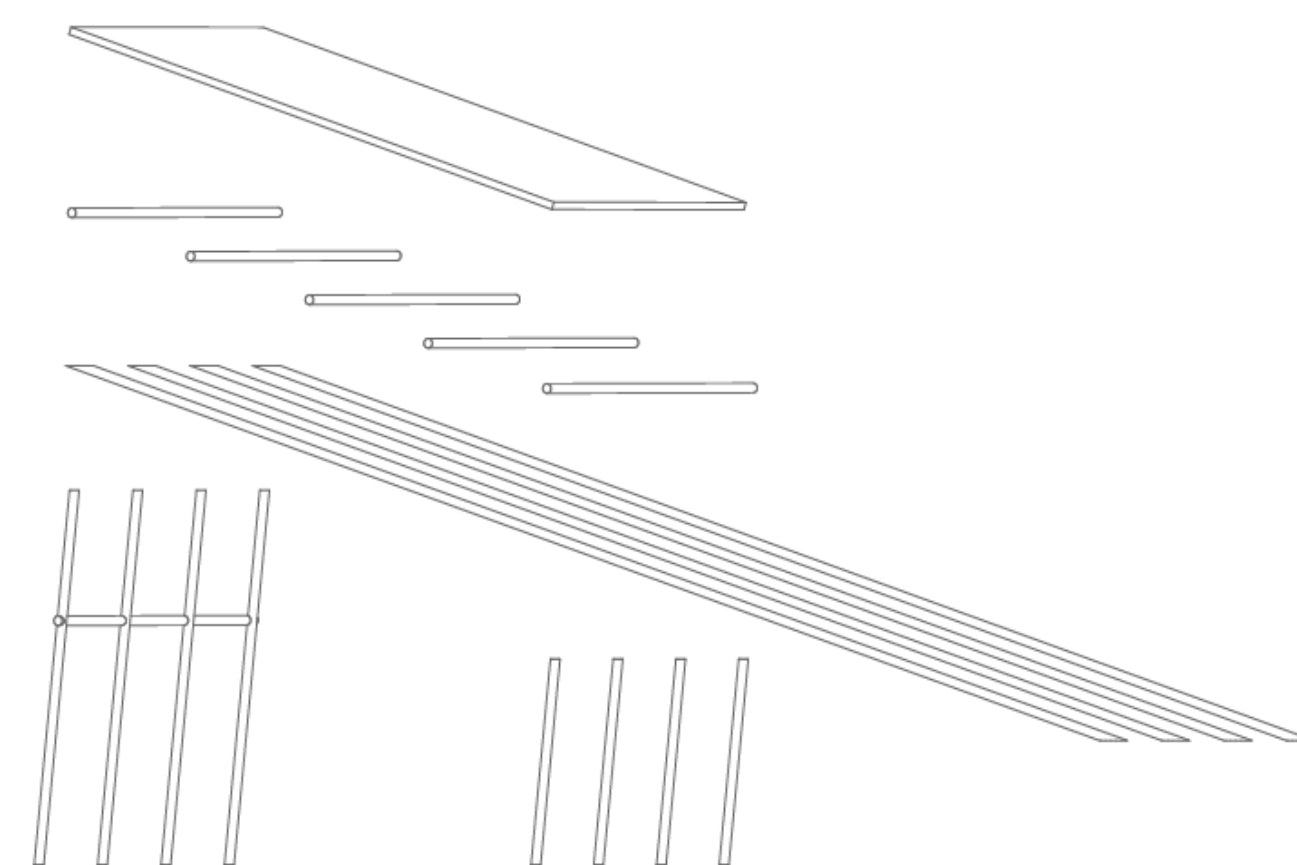
The modular structure supporting the solar panels allows for easy transportation and on-site assembly with the involvement of the local community.

The supporting structure is a rigid frame made of bamboo. Each platform holds 12 solar modules, each measuring 1 by 2 meters, totaling nearly 600 solar panels in our design.

Among them are two covered inverters are placed discreetly within the layout.

The modules are oriented towards the north to maximize solar exposure throughout the day, with a relatively low tilt angle to capture sunlight across a larger surface area.

We have integrated multiple water storage tanks into the solar panel layout. These are positioned above ground to protect the fresh water from contamination caused by drought-affected soil conditions.



The elevated supports provide protection for the solar panels by raising them above the ground level, keeping them safe from debris and accidental damage. Their height also prevents unauthorized handling, ensuring the panels remain secure and functional over time. Beneath the structure, a gravel layer supports drainage during periods of heavy rain or temporary flooding.

The shaded space below remains accessible and can be freely used by the community.

