



EACH STRUCTURE consists of a subterranean cistern which could be connected to each other or left individual. Water collected in these cisterns will be pumped to central water lines for individual filtering. Above the ground a steel subframe comprised of prefabricated pieces would be assembled before being sprayed with fiberglass reinforced concrete to complete construction.

THE ROOF of each structure contains approximately 1800 square feet of deployable solar surface area. Between the family of three structures there is a total of 5400 square feet (or approximately 500 square meters) of deployable solar surface area which is more than capable of meeting the Kilowatt needs of Marou Village as well as providing excess which could be used for filtration or other energy needs.

WATER COLLECTION is achieved by channeling rainwater from the roof through designated collection ports which create artificial waterfalls inside the structure. Water then fills a channel on the floor of the structure where it circulates until it reaches a predetermined level at which time it is drained into the cistern. This creates a circular “pool” of water which, in addition to the artifical waterfalls, contributes to the auditory and visual interest of the structure as well as adding to the experiential and interactive element of the installation.

MOST OF THE COMPONENTS including the prefabricated substructure could be shipped to **NAVITI** before being constructed by pretrained locals. As local involvement was desired, almost the entirety of labor could be completed (with necessary tools and training) by the local population which adds local social value to the structure and aids the community in claiming the installation as their own.

