Material and Form Selection for Community Involvement and Long term Sustainability

Bula Bloom is a community-centered design and process intended to celebrate and strengthen the independence of the Marou community. The canopies emulate the upward curves of bromeliad leaves to mimic their natural water-harvesting capabilities. Each module features a structure of bamboo catenary arches that channels water to underground ashcrete cisterns via a central cluster of columns. Like the mangrove tree, the modules have a light contact with the ground to reduce ecological impact. The design uses locally sourced bamboo for its regenerative properties, cultural familiarity and high construction versatility.

Bula Bloom balances environmental needs with the needs of Marou Village. Every component is either harvested from Naviti Island or easily transportable, enabling ease in construction and future expansion. The accessibility of the materials ensures that community members can actively participate the construction and preservation of the modules.





Bromeliad leaves direct water to the plant's core

Monocrystalline Flexible PVT Panels nounted to the canopy, generating electricity

Mangroves touch the ground lightly and create shelter for small animals while filtering water

Bamboo is versatile in construction with high strength

..........

Modular System

Natural Rainwater Filtration System designed with locally harvested materials to filter the water entering and leaving the underground cisterns

