

TECHNICAL SPECIFICATIONS

The interior of the shallow bowl is lined with 528 m² of PV panels, generating 75– 100 kW of solar energy—enough to exceed daily demand and power devices, lights, pumps, and a small ice-making system. Rainwater harvested from the 586 m² roof is funneled into a 750,000-liter cistern and filtered through a four-stage system including sand and activated carbon. The structure's bamboo truss design withstands 280 km/h winds, using stainless steel joints and reinforced footings.







OPERATIONS & MAINTENANCE

Designed for self-reliance, the system can be maintained by local teams trained during construction. Filter tanks are transparent for visual inspection, and solar panels are safely accessible for cleaning. Basic repairs use local materials and tools. Monitoring is simplified with visual system health indicators, and complex issues can be resolved through remote technical school partnerships.