

# FRESH WATER TANK

## MALAMALA BEACH CLUB

### FIJI

In Nov 2016 a Kliptank was installed at the new resort on Malamala Island, Fiji. The tank is fully sealed with food grade materials making it suitable for drinking water for guests at the resort.

#### THE SPECIFICATIONS OF THIS TANK ARE:

- ♦ 165,000 Litres of usable storage capacity
- ♦ 2.7 m high
- ♦ 9.2 m diameter
- ♦ Earth anchoring system designed for cyclones
- ♦ Sand base

The lightweight alloys and plastics in the Kliptank design made freighting this tank to its remote location very simple. The flat-packed tank fit into a 20-foot container with plenty of room to spare. It was then moved by a single boat-load to the island shore before being moved by hand to the site.

The majority of the construction was done with common hand tools, except for some small specialised hardware which was easily condensed into a suitcase.

To reduce the installation costs, Kliptank sent only one personnel from NZ and used four local helpers to put the tank up in just two days.

One of the major advantages of the Kliptank design is that no concrete foundation is required. The sand on site was compacted, onto which the Kliptank base ring was put to help withstand the differential settlement that was expected.

To meet the requirement to withstand a Category 4 Cyclone, Kliptank used its unique Earth Anchoring System to handle the wind loadings in the design spec.

The plastics and marine grade alloys of the Kliptank are inert to the corrosion problems typical in salty environments and resistant to the rough abrasion of sand in the wind.

**CLIENT:** South Sea Cruises  
**CONSULTANT:** Phil Richards, Kryonn  
**CONTRACTOR:** Kyronn (Fiji) Pte Limited

The photos to the left show the finished tank, the earth anchoring chain, the tank base and the tank mid-construction. The photos below show the transport process, from the shipping container to the boat and finally by hand and foot.



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