



## OKAVANGO RIVER BRIDGE

Botswana



### Project Facts

#### Product

Auger/Oscillator Piles

#### Market

Infrastructure - Bridges

#### Client

Ministry of Transport and Communications

#### Main Contractor

Itinera/Cimolai JV

### Achievements

- 1200mm diameter piles installed to depths in excess of 52m using 1350mm temporary casings.
- Tremie concrete under excessive depths of water.

#### About the project

Okavango Bridge which connects villages on the east of the river with the rest of the country, straddles the Mohembo East (Kauxwi) Ferry landing site with the Mohembo West (Shakawe) Ferry landing site. The 1,2km bridge consists of two towers for the Cable Stayed portion and 18 piers.

#### Challenges

The nature of the site and the surrounding area, including roads and general access, were extremely challenging especially for bringing in the specialized equipment that was required for the job amongst which was a Liebherr 355 – one of the largest augering machines in Africa.

As the works took place on both sides of the river, it was also a challenge to get the plant across the river, which was made possible by the main contractor who provided us with a 150t pontoon to move the plant.

#### The solution

The works entailed the installation of 204 No. 1200mm diameter, permanently cased bored piles to an average depth of 35m below platform level. Some of the piles required were installed to a depths in excess of 52m.

