

# BAY OF PLENTY PIER

KWA-ZULU NATAL, SOUTH AFRICA



## Key achievements

- Construction completed on the exposed South African East Coast.
- All concrete works cast in-situ over water
- Deck shutter modifications successfully carried out to accommodate varied pile spacing due to obstructions
- Existing damaged precast piles tied together to retain rock groyne.

**Application**  
Jetty

**Technique**  
Reconstruction of RC Pier and Caisson Piles

**Market**  
Near Shore Marine Works

**Client**  
Ethekwini Municipality

**Main contractor**  
Franki Africa

**Contract Value**  
€ 2,2 million

**Keller business unit (s)**  
Franki Africa

## The project

Due to the failure of existing precast concrete piles the 30 year old pier was collapsing. Franki, due to their experience in pier construction on the east coast, were appointed to demolish 75m of the existing deck and construct a new wider reinforced concrete deck on steel tube piles and install scour protection around the pier.

## The challenge

All works were carried out over water exposed to regular wave action in excess of 5m. The existing structure had to be demolished without any spoil entering the sea and old precast piles tied together to prevent loss of groyne rock. 4t scour protection bags had to be placed in a mat around the head of the pier in 6 – 10m water in the wave zone.

## The solution

Franki's temporary jetty was constructed adjacent to the existing structure to ensure safe access for adequate piling equipment and crange.