Together with its Australian affiliate, the Baulderstone Hornibrook Group, Bilfinger Berger AG built a 660 m long cable-stayed bridge over the Mekong.

Piling works for the abutments and both pylons was performed from a large barge in water depth of up to 25 m with tidal range of two meters and water current of up to 2.5 m/s.

All piles had to be partly cased with permanent steel casings of 42.5 m length, vibrated to final depth. Bentonite suspension-supported excavation was performed with the help of two patented spherical grabs developed by Bilfinger Berger AG.

Extremely stringent specifications for position and verticality of the piles as well as reinforcing cages with up to 80 t weight and length up to 104 m presented a challenge.

The placing of the concrete at depths of up to 100 m made special demands on the mix design and placing technology.

Concrete was supplied over one 150-meter long trestle on each river bank.

Pile quality was checked by ultrasonic integrity testing. For this purpose 6 sonic logging tubes with diameter of 50 mm were fixed to the reinforcement cage. After the ultrasonic test of the concreted pile, pipes were used for toe grouting. The Osterberg Cell testing method was used for design verification.

**Quantities:**
36 Nos. Bored Piles (Diameter 2.50 m; Depth up to 100 m)
Osterberg Cell Testing