

**Developer**

Jabatan Kerja Raya Pahang

**Client/Turnkey Contractor**

Setiwi Padu Sdn Bhd

**Consulting Engineers**

(Civil, Structural, Geotechnics and M &amp; E Engineering)

Arup Jururunding Sdn Bhd

**Project Cost**

RM 103 million

**Completion Date**

April 2004

## Bridge over Sungai Pahang, Chenor



The Government of Malaysia proposed to provide a new link from the southern gateway of the East Coast Highway, near Jengka, to the FELDA Schemes to the south of the Pahang River. This new link requires the construction of 25km of connection roads and a new river crossing near Chenor.

Setiwi Padu Sdn Bhd was awarded the turnkey contract for the proposed link. Arup was in turn appointed by the contractor to provide the structural and geotechnical engineering design for the bridge.

The bridge comprises of a 4-lane dual carriageway and its design was divided into two main structural forms.

The Main Bridge is of segmental prestressed box girder design and will be constructed by the Balanced Cantilever Method. It has a total length of 650m with spans ranging from 52m to 140m.

The Approach Bridge is of relatively simpler design, consisting of precast prestressed beam girders of 38m spans. All in, there will be 20 spans, providing a total length of 760m.

Bored piles were adopted for the bridge foundation. The Main Bridge has 1500mm diameter piles whereas the Approach Bridge has 800mm diameter piles. Two of the bridge piers are located within the river and posed an interesting challenge for the contractor.

