

Dengkil Interchange

CLIENT: Gamuda

LOCATION: Malaysia

YEAR OF COMPLETION: 2019

We were appointed by Gamuda to provide detailed design consultancy services for the bridgeworks in the Dengkil Interchange project. This comprise two packages;

Package 1 is the North Bridge, which is approximately 815m long and spans across the Elite Expressway. It consists of RC spine beam deck except for the section of the expressway, where prestressed concrete box-girder deck was used to enable balanced cantilever construction and minimise disruption to the existing road network underneath.

Package 2 includes two ramps with a total length of 1km that will form spur roads connecting the Toll Plaza of the new development with the Elite Expressway. The deck arrangement is similar to Package 1.

Cast in-situ spine beams were adopted as part of our alternative design for precast beams in order to simplify construction and reduce overall project cost.

KEY FACTS:

- Detailed bridge design
- RC spine beams
- Box-girder deck
- Balanced cantilever method

