Taiwan High Speed Rail Project Detailed Design for Civil Work Lot C280

Project

Detailed Design Services of Taiwan High Speed Rail Project Contract C280

Contractor

Samsung-Doosan-IE&C Joint Venture

Location

Taiwan

Service Period

2001/08~2004/05

Scope of Services

The design for permanent works of viaduct/bridge VB1, VB2 and VB7 of total length 5,947meters. The major works are summarized as following; in general MAA is responsible for: -

- Providing the complete economic and optimum design including management of the design effort by MAA staff and its sub-consultants.
- Preparing calculation, design drawings for detail bridges/viaducts design and detailed material and work specifications related to design work necessary for the construction of permanent works for typical bridges.
- Providing design submission and interface with CICE for their certificate.
- Providing design coordination with and obtaining approval from the THSRC for the design.
- Providing construction support engineering on related issues concerning the design of the permanent works.

Project Description

This contract is for the design and construction of the section of the Taiwan High Speed Rail Civil Works C280 between Chainage TK 249+814 and TK 284+221. The contract includes the design and construction of the viaduct and bridge structures of total length of 33,990 meters, which includes the crossing of the Pa Chang, Chi Shui rivers, and 4-track viaduct structure through Chiayi Station. The viaducts/bridges are constructed by FPLM, CIP, MSS and BCM methods.

The topography consists of a flat alluvial plain, and it is virtually all closely cultivated. There are numerous irrigation canals and ditches crossing the alignment, which are critical for the cultivation of these crops. A number of shallow streams and rivers cross the alignment and are subject to flooding during heavy rains.