



DESIGN AND SUPERVISION OF FIVE BRIDGES IN TIMOR LESTE

Located South East along A08 National Road

Client: United Nations Office for Project Services

SUMMARY:

Value: €6.5 million

Status: Under Construction (2006)

Finance: UNDP

Contractor: Penta Ocean Co. Ltd.

Services Provided:

Project Management / Preliminary Investigations

Structural Engineering/ Design Management

Geotechnical Investigations and Design

Hydrology & Hydraulic Design

Social and Economic Assessment

Project Control/ Procurement Management

Control of Supervision Services

Narrative Description of Project:

- Design of 5 No. bridges along the A08 national rd in the mountainous districts of Viqueque & Lautem.
- Bridge spans of 35, 40 and 50 m with a total bridge length of 410m
- Typical cross-sections for each bridge is dual lane (2 x 3.0m) carriageways with a 1m footpath
- Bridges are Steel Truss covered propriety systems suitable for launching during periods of high river flows and flash floods. Abutments and piers on reinforced concrete founded on steel driven piles
- Construction of access embankments to bridges & extensive river training and scour protection

Description of Actual Services Provided by Staff:

Review of current and completed studies relevant to the project

- Topographical and Geological site investigations & hydrology and Hydraulic modelling
- Environmental and Socio Economic Assessment
- Complete Design of bridge super and substructures
- Assistance with complete works procurement process including tender documentation & evaluation
- Supervision as Engineer to the contract on UNOPS Standard conditions of contract
- Progress monitoring, financial management, quality control and claims management.
- Final measurements of completed works and provisional and final acceptance of works.

