Project Reference P150 **Submarine Pipelay**

Tanjung Bin Submarine Pipeline

Project
Tanjung Bin Water Supply : Installation of 580mm OD Submarine Pipeline Across Sungai Pulai, Johor.

Client
Kencana Infrastructure Sdn Bhd

Contract Sum
RM8,300,000

Contract Period
Feb 2007 ~ July 2007 (6 mths)

JV Partner
Murray & Roberts Marine

Owner / Employer
Tanjung Bin Power Sdn Bhd
SAJ Holdings Sdn Bhd

In 2007, Murray & Roberts – SYS JV was contracted by Kencana to install a 900m long x 580mm OD submarine pipeline across Pulai River to supply water to Tanjung Bin Power Station.

The pipeline comprised two previously assembled pipe-strings intended for installation in a horizontal directional drilled (HDD) hole. Due to technical difficulties experienced by others, the option of HDD was abandoned in favour of the “open-trench” and “bottom-tow” method.

As the existing pipeline was intended for HDD installation and was positively buoyant, concrete half-shells were attached to the pipes to form a continuous weight-coat for the “bottom-tow”.

The pipe trench was dredged by grab dredger, and a wire-rope was laid across the river connecting the pipe-string on one bank to a 300 ton capacity linear winch on the opposite riverbank.

The pipeline was then pulled across the river in a single continuous operation, and the project successfully completed in June 2007.