

Civil and Exterior Design for Tanjung Jati B Coal-Fired Power Plant



Photo taken in June 2012

Ordering party : Mitsui Engineering & Shipbuilding Co., Ltd.

Location : Java, Indonesia

Power generation capacity :

- Phase 1: Generator No.1 & 2: 660MW x 2
- Phase 2: Generator No.3 & 4: 660MW x 2

Service : Civil and exterior design (excluding sea-based facilities)

Construction : January 2012 (completed)

Tanjung Jati B coal-fired plant, having power generation capacity of 2,640MW in total of both phase 1 and 2 of construction, is one of the major power plants in Indonesia which has recently achieved rapid development. It is located on the Java Sea coast, 70km northeast from Semarang of Central Java.

NSC designed the main civil structures of the plant ordered by Mitsui Engineering & Shipbuilding who were in charge of the construction.

Specifically, we conducted the civil design of turbines, central monitoring room and boiler foundation as well as the foundation of all ground civil facilities such as water intake & discharge facilities, coal handling facilities and water treatment facilities. Based on the analysis of soil survey performed in advance, those facilities were designed to serve as the safe structures suited to the soil conditions of the site.

In this project, NSC also designed infrastructure facilities such as in-site roads, rainwater or sewage drainage facilities in the plant.