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smart project delivery

Coal Preparation Plant Engineering Design

Client

Jindal Steel & Power Limited (JSPL).

Project Location

Angul, State of Odisha, India.

In December 2011, Engenium completed the Engineering Design of a Greenfield coal preparation (beneficiation) plant for Jindal Steel & Power Ltd near Angul in the State of Odisha, India.

The coal washery formed a key part of the steelmaking process being constructed on the 3000 acre site at Angul.

Other construction activities on the JSPL site at Angul included a sinter plant, pellet plant, coke ovens, steel products mills, coal gasification plant, oxygen plant, lime and dolomite plant and a 1600mW power station.

The 1200tph Coal Preparation Plant Design consisted of a surge bin, dry screening module, a twin stage coal preparation plant, 30 metre diameter thickener and all product transfer conveyor infrastructure.

The Process Design produced “zero tailings” which is a key benefit on a site with limited space.

Engenium developed a Modular Design for the coal preparation plant structure. This modular approach utilised an approach to design which minimises the steel sections and produces a relatively small plant “footprint” (lower capital cost).

Other benefits include shorter construction period (lower cost and WHS risk), lower profile (height) than normal, flexibility for expansion and customised process design within each module based on its size.

Want To Know More?

For more information please contact our Newcastle office on +61 (0)2 4940 4100, email info@engenium.com.au, or visit our website engenium.com.au.

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