POWER PLANT PROJECTS MEDUPI & KUSILE

South Africa

UPSTREAM
MIDSTREAM
DOWNSTREAM
ENERGY, PROCESS INDUSTRIES & CONSTRUCTION

FACT & FIGURES

End user
> ESCOM – South Africa

Contractor
> Alstom Power System SA - France

Year
> 2010

Contract value
> 10.1 million USD

TECHNICAL DATA

Type of products supplied

> Carbon steel, low temperature carbon steel and stainless steel, seamless steel pipes, fittings and flanges.

Quantity

> Around 3700 Tons.

Delivery Schedule

> During 2009, 2010, 2011.

NOTES

Carbon Steel

In the face of severe power shortages, in 2007 South Africa's state-owned utility, Eskom awarded contracts for two identical coal fired plants. Known as Medupi and Kusile, each plant will have a generating gross capacity of nearly 4800 MW.

Medupi, ordered just a few months ahead of Kusile represents the largest investment in Eskom's 84 year history and will be the first base load project built in the country in 20 years. The combined output of the plants represents about 25% of the country's current power generation capacity.

The turbine island contracts for both plants were awarded to Alstom. Under these contracts, each worth more than [euro]1 billion, Alstom is responsible for the supply of the steam turbines, generators, associated air cooled condensers (subcontracted to GEA for Medupi and to SPX for Kusile), related turbine island auxiliary equipment and feed water heating plants.

An interesting aspect to this project is that Kusile will be the first power station in South Africa to have Flue Gas Desulphurization (FGD) installed. FGD is the current state-of-the art technology used to remove oxides of sulphur (SOx), e.g. sulphur dioxide (SO2), from the exhaust flue gases in power plants that burn coal or oil. This enables Eskom to use the technology as an atmospheric emissions abatement technology, thereby ensuring compliance with air quality standards.

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