

Dear Mr.Cost, An inquiry on boiler equipment and accessories in

Straw-fired Power Plant

I'm writing to seek a supplier of complete boiler equipment in 24MW straw-fired power plant. Please allow me to begin the inquiry with my company's introduction.

Company Introduction

... with its sister companies, is a trading firm of comprehensive industrial equipment and systems as well as components targeting Mainland market as the main market.

(Mainland=Festlandschina im Unterschied zu Taiwan, Anmerkung von Cost)

..., market oriented, has put emphasis on marine, oil and electrical power industries of china and supplied various world famous and quality products to its customers for their manufacturing and technology updating.

Project Description

The whole project—the building of straw-fired power plant in ... province of China has obtained the government's support and approval. Besides, the World Bank has granted to offer the loan. Please be convinced that there should be no problems related to financial respect.

Moreover, there is a good and promising prospect to starting this project, since it is the first straw-fired power plant. According to the government's plan, 100 similar straw-fired power plant will be established within five years all over the country.

Regarding this first straw-fired power plant, the client initially plans to import the complete boiler equipment and the concerned accessories, including (but not limit to) the mechanical device for compacting straw, boiler proper, conveyor, ash handling system, auto-control system, water treatment, flue gas discharge, ID Fan, FD Fan, evaporator and so on.

Regarding the afterwards 99 power plants, the major components will be imported from foreign countries and some other steel structure and minor parts will be purchased locally. Up to now, the client has successfully obtained World Bank loan for the first power plant. They are looking for very qualified and competitive suppliers.

Technical Specifications

Description of Boiler equipment in straw-fired power plant	
Capacity:	24MW 130tons/hour
Steam flow rate:	29.47kg/s
Designed flow rate:	64kg/s
Steam temperature:	Outlet of boiler 540 Grad Celcius
	Inlet of turbine 535 Grad Celcius
Steam pressure:	Outlet of boiler 90bar
	Inlet of turbine 88bar
Efficiency of boiler	91%
Total cycle efficiency	31.5%
Consumption of straw	20tons/hour
Inlet water temperature of cooling system:	Between 5-25 the average is 15 Grad Celcius
Combustion airflow in furnace:	32.8kg/s
Airflow in furnace:	38.3Kg/s
Chimney:	40.7Kg/s
Gas temperature of chimney:	125 Grad Celcius

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