



## At the greenfield Jiang Lin pulp mill:





**THE JIANG LIN PULP MILL** is the first that Asia Pulp & Paper, the Jiang Lin project parent company, has built in China. The raw material will come from eucalyptus plantations already planted on the island of Hainan. The mill will supply pulp to several APP paper machines in China. Sited in the Yangpu Economic Development Zone on the island of Hainan in the South China Sea, the project is scheduled for start-up in September 2004 or about 20 months after effective contract date.

At a nominal capacity of 3000 tpd of fully bleached hardwood kraft pulp, Jiang Lin is the largest single-line fiberline in the world.

Shearforce consistency transmitters are the instruments of choice at the greenfield Hainan Jinhai Pulp & Paper Co., Ltd mill sited in the Yangpu Economic Development Zone on the island of Hainan in the South China Sea.

At a nominal capacity of 3000 tpd of fully bleached hardwood kraft pulp, the mill is the largest single fiberline in the world. It's also the first pulp mill that Asia Pulp & Paper, the Hainan Jinhai Pulp & Paper parent company, has built in China.

## “Shearforce the only satisfactory consistency transmitter in a pulp line”

According to vice president director *Lan Cheng Lan*, “Shearforce transmitters are the only satisfactory instrument for measuring consistency in kraft pulp fiberlines and drying operations.

### Why shearforce transmitters

“APP has had only good experience of shearforce transmitters in their other operations throughout Asia because of their insensitivity to conductivity as well as other factors such as varying fiber length, freeness, fillers, black liquor content, flow velocity, air content and pressure,” continues Mr. Lan.

“What’s more, the instruments have proven to be accurate and reliable and they require minimum calibration and maintenance.”

Over the years, APP has been an excellent BTG customer. More than 500 rotating and 200 active blade transmitters were installed in the company’s Indonesian mills in the 1990s. →

The Jiang Lin project has created an economic boom in this area of Hainan. During spring 2004 there were some 8,000 workers on site, and more were employed in May and June.



At the greenfield Jiang Lin pulp mill, cont.



Assembling an MEK-2300 rotating consistency transmitter.



Before shipping, each consistency transmitter undergoes final testing according to ISO 9001 standard.



Work at the Greenfield mill site is intensive in anticipation of meeting the scheduled start-up.

The order for 31 MEK-2300 rotating and three MBT-2300 active-sensor consistency transmitters for installation at Jiang Lin is one of the single largest orders BTG has ever had for consistency transmitters. Totally, BTG has sold more than 30,000 rotating shearforce transmitters.

Both the MEK and MBT are "Smart transmitters" featuring the SPC-1000 hand-held terminal used for configuring a number of different measuring instruments in the total BTG product line.

### Enormous pulp and paper demand

The pulp and paper industry is a key component in the national economy of China, and the production of paper and board increases continuously and rapidly. The growth rate for the industry in recent years has been much higher than the world average.

In spite of the high growth rate, production of paper and board has not been able to supply the demands of an even faster growing economy.

Not more than 10 years ago pulp and paper enterprises with production capacities of less than 5000 tons accounted for more than 75% of the total. Consolidation of the industry into paper and board facilities with greater production capacity has therefore been a recent trend.

A shortage of wood resources is also a problem for the pulp and paper industry in China, where pulpwood accounts for only a small part of the input in pulp and paper production. Non-wood pulp accounts for a part of the total pulp production that is significantly higher than the world average.

### Meeting the demand

Today small enterprises are giving way to far larger, more modern and efficient pulp and paper operations. These enterprises are also addressing the problem of wood shortage. Asia Pulp and Paper operations in China are playing an important part in this trend.

At the present time APP, a major producer of paper in China, imports the raw material for paper production from its pulp mills in Indonesia as well as from other countries in Southeast Asia. Pulp from Jiang Lin will to a certain extent replace these imports.

According to Mr. Lan, the company's plans for development in the Yangpu Economic Development Zone are extensive. As regards capacity utilization, he underscores that 3000 tpd is the nominal capacity of the line and that it should be able to be run at 3500 tpd without any problems.

At the outset, the pulp mill will supply raw material to the several APP paper machines operating in China, for example to APP Gold

East Paper, the 1.2 million tpy woodfree fine paper mill at located Zhenjiang, Jiangsu just outside Shanghai.

In the long term, Mr. Lan notes that another, in all likelihood even larger fiberline will be built alongside the one currently being constructed. This means in round figures a total pulp production capacity of close to three million tons annually in the Yangpu Economic Development Zone. APP also has plans for as many as six paper machines on the site.

Raw material for the mill will come from eucalyptus plantations already planted on the island of Hainan as well as from other eucalyptus plantations throughout China.

Until the plantations can supply enough eucalyptus to meet the total demand for raw material, the mill will run on mixed tropical hardwood and eucalyptus.

### Source of new jobs in the area

The Jiang Lin project has created an economic boom in this area of Hainan. During spring 2004 there were some 8,000 workers on site, and more were employed in May and June. Previous to the mill project, this area supported poor farmers who now have gone from earning almost nothing to earning much better. The mill will employ about 1000 persons when in full operation. ▲



The greenfield Hainan Jinhai Pulp & Paper Co., Ltd mill, sited in the Yangpu Economic Development Zone on the island of Hainan in the South China Sea, is scheduled for start-up in the autumn of 2004.