

## New technology integrates and streamlines operations at ITC's Paperboards and Specialty Papers Division.

ABB's System 800xA links systems at ITC's Bhadrachalam mill, while cpmPlus Smart Client collects and monitors critical mill data from three different locations in India.

The executive team at ITC's Paperboards and Specialty Papers Division, India's largest, most technologically advanced and most eco-friendly paper and paperboards business, has always been committed to using technology that can help them sustain market leadership. After assessing available automation for system integration and data management, they chose to invest in ABB products.

At the Bhadrachalam mill, ITC needed a complete automation solution including a Distributed Control System (DCS), Quality Control System (QCS) and drives for a new paper machine. Meanwhile, ITC's Bhadrachalam, Kovai and Tribeni mills needed a more effective way to manage information.

To meet these challenges, ITC invested in ABB's System 800xA DCS, Paper Machine Drive System PMC800 with ACS800 Multi Drive and AC induction motors, Smart Platform 1200 QCS and CD actuators, as well as a cpmPlus Smart Client.

### World-class paper manufacturing

ITC is India's largest coated board exporter. At its four mills, ITC produces a wide spectrum of packaging, graphic, communication, writing, printing and specialty paper. The company is known for using world-class manufacturing products and methods. ITC products range from pristine food-grade boards to 100% recycled boards.



ITC's paperboards and specialty papers business are India's market leaders in the paperboards segment, and ITC also has a significant share of the fine papers market.

Each of ITC's four mills are ISO 9001, ISO 14001 and OHSAS 18001 certified and meet strict environmental and safety regulations. All four mills specialize in a range of products and together produce more than 500,000 TPA of paper and paperboard that meet stringent quality requirements.

Bhadrachalam is India's largest integrated pulping and paperboard mill. Bhadrachalam produces paper used in packaging and graphic applications, as well as fine printing papers. The mill manufactures pulp made with elemental chlorine free technology, which significantly reduces toxins and creates a greener product that is also brighter and stronger.

ITC's Kovai mill only manufactures recycled boards and has a strong environmental focus. A big part of their environmental commitment: they recycle waste paper on-site.

The Tribeni mill specializes in fine papers and tissues. The mill produces opaque papers used in fine printing products like religious texts, dictionaries, medical grade papers and electrical insulation papers.

The Bollaram mill manufactures food grade boards and specialty boards.

ITC says their strong customer focus is reflected in their diverse range of products and services, and in the way that they partner with customers. The company's quality philosophy is held by employees at all levels and reflected at every production stage.

### Integrated automation

In 2008, the Bhadrachalam mill started up a new paper machine to be used for producing writing, printing and copier paper. The mill wanted to integrate their drives, DCS and QCS, and they wanted to integrate their old hardware and sensors with the new QCS. To meet these goals, ITC ordered a new System 800xA DCS, QCS and drives.

ABB's System 800xA is a real-time automation and information solution based on open technology and the latest global standards. System 800xA seamlessly integrates every component of an operation so mill personnel can swiftly access information from any workstation connected to the network. With the easily accessible information, operators and managers can predict and react quickly to all the demands of the dynamic papermaking process. The result: gains in efficiency and productivity, and reduced energy use.

System 800xA contributes to higher returns on assets and reduced total cost of ownership. The open architecture allows third-party applications to be smoothly integrated, and provides mills with the flexibility to implement functions needed today while adding others as requirements evolve.

### First cpmPlus Smart Client in India

ITC ordered the first cpmPlus Smart Client installed in India for its Bhadrachalam, Kovai and Tribeni mills.

ITC wanted a centralized monitoring system that would gather critical process and production data from the three mills, which are spread across India. ITC wanted online data to be easily accessed by personnel located in their head office and their mills. They also wanted data integration with their SAP system.

The ITC team knew it would be challenging to integrate data and systems from three separate mills. And they also knew seamless information management from a third-party DCS could also be difficult. The cpmPlus Smart Client met these challenges.

Smart Client provides a true browser-based thin client that seamlessly retrieves data from System 800xA and connects third-party systems.

Smart Client eliminates duplicate engineering and makes data available in a simplified display that requires no programming. Importantly, by streamlining data collection and retrieval, Smart Client helps mills lower their overall costs.

With the new ABB automation, the Bhadrachalam mill can now completely integrate their drives and QCS with their DCS. And three ITC mills have a better way to view and monitor data.

For more information, please contact:

#### ABB Ltd.

Finnabair Industrial Park  
Dundalk, Co. Louth, Ireland  
Tel: +353 42 9385100  
Fax: +353 42 9385124

#### ABB Engineering Ltd.

S.P. Building, No. 5, Lane 369, Chuangye Road  
Kangqiao Town, Pudong District  
Shanghai, 201319, P. R. of China  
Tel: +86 21 6105 6777  
Fax: +86 21 6129 8499

#### ABB Inc.

579 Executive Campus Drive  
Westerville, Ohio 43082, USA  
Tel: +1 614 818 6300  
Fax: +1 614 818 6571

[www.abb.com/pulpandpaper](http://www.abb.com/pulpandpaper)

© 2010 by ABB Inc.