

Industrial^{IT} for Papermaking BILT, India's largest paper company cut costs with ABB composite solutions.

ABB delivered to Ballarpur Industries, Bhigwan Unit a complete composite solution consisting of mill electrification, drives and motors that gave BILT a quantum jump in performance

BILT is India's largest paper company and the only Indian company to rank among the top 100 paper companies in the world. Complementing this is a diversified production infrastructure with six manufacturing units spread across India.

BILT requirements

BILT required an electrification and drive solution for their new fine print paper machine as well as for the 30 MW thermal power plant. The project included an in-line coater paper machine, Janus super calendar and Vari-flex winder. BILT wanted a seamless integration of the different components to enhance efficiency and save costs.

Challenges

End-to-end project completion in 15 months. First 690 VAC, low voltage solution in a paper machine application.



Solution

The complete composite solution covered mill electrics, drives and motors, engineering, manufacturing, supply, erection, testing and commissioning for: PM2, Janus Calendar, Vari-flex winder, 220 kV substation extension (2 Bays) and a 30 MW thermal power plant. The scope included a 220 kV/6.6 kV switch yard with substation equipment consisting of a SF6 circuit breaker, current transformer, potential transformer, lightning arresters, isolator, capacitors and structures.

ABB supplied PM drives, AC Motors, MV switch gears, variable voltage variable frequency standalone drives lineup, MCC, PCC, HT/LT capacitors, bus ducts, erection equipments, GOP, encoders and other field equipment for PM2 and the power plant.

The PM Drives included 4 supply sections, 99 multi-drive inverter and 89 standalone drives.

Benefits

The entire responsibility for electrification and drive system delivery was vested with ABB's PMC800, a global drive standard solution for paper machines that ensures energy saving and reduced maintenance which translates into cost savings for the customer.

ABB team

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