First modern evaporator station for the Indian cane sugar industry

The vast majority of cane sugar factories that have been built in India are still producing sugar with decades-old technology, using obsolete machinery and apparatus, often at the expense of efficiency. Very reluctantly, decision makers have in recent years started to think about the application of new technologies as part of energy and yield optimisation programmes. Buzz words such as "cogeneration" and "green power" play an increasingly important role, as attitudes are changing among local politicians and in the global economy.

During extensive talks with the customer Indian Cane Power Ltd., BMA presented various concepts that aim at reducing steam consumption in the sugar production process so that the largest possible amount of the electrical power generated in the factory can be sold, thus complying with the customer's request for enhancing the efficiency of their 6,000 tcd cane sugar factory.

After detailed information had been given to the customer both at their own factory in Uttur and also at several reference factories, BMA received an order for equipment and engineering for a complete evaporation plant in a cane sugar factory in May 2010. The plant will be a 5-effect evaporator station with BMA falling-film evaporators of the Beta type. BMA engineering with highly effective state-of-the-art technology offers optimised energy efficiency and excellent product quality at an optimum price/performance ratio.

BMA's services will range from mass and energy balances to basic engineering services with a layout plan, PFD, an equipment list, pump specifications, motor and field-instrument lists, and shop drawings for the evaporators. All these services will be presented and discussed during project meetings in India, at which the customer's responsible staff and sub-suppliers will be present.

Author Bernhard Schmidt

with a guard

Indian Cane Power Ltd.

factory site in Uttur

Each of the first three effects of the evaporator plant will offer a heating surface of 4,000 m², while the 4th and 5th effects will have 1,000 m² each. The evaporator bodies will be manufactured in India on the basis of BMA's shop drawings, whereas the five special-design juice distributors and droplet separators for the first three evaporator effects will be manufactured in Germany. Commissioning of the plant is scheduled for September 2011.

Bernhard Schmidt
Dr Andreas Lehnberger

Benefits

- Evaporator plant planning from one single source
- Intensive consulting services during the planning phase
- Most equipment manufactured locally
- Key elements from BMA guarantee plant efficiency
- Always one step ahead with BMA technology