

# Engineering for the cane sugar industry

Its many years of expertise gained in numerous projects make BMA a much sought after partner not only for the beet sugar industry and for sugar refineries. BMA can provide competent assistance with development projects and new factories in the cane sugar industry, too. This competence goes beyond the delivery of machinery, equipment and plants, and includes planning services in the form of engineering and consulting.

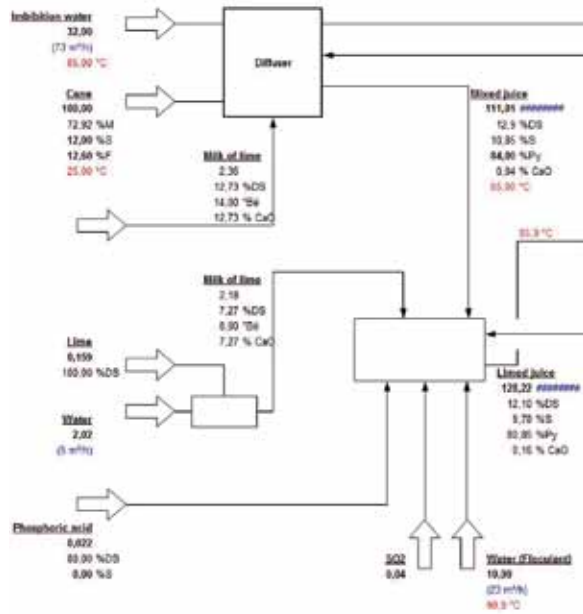
In 2011, BMA's planning services included the following:

- Planning of a new evaporation plant for Indian Cane Power Limited, India, with the following core elements:
  - 5-effect evaporation plant with falling-film evaporators
  - Modern cleaning concept
  - Substantial reduction of steam consumption by adapting the steam requirements of the different steam consumers
- Study for improvement of the molasses purity for Compagnie Sucrière Sénégalaise, Senegal; a crucial factor here is technologically improved cooling crystallisation of the C-product massecuite.
- Comparison cane mills vs. diffuser:
 

The most important advantages of diffusers (power consumption, maintenance, etc.) in comparison with a process that uses mills only were presented for a project in Central America (based on the same steam consumption figures).

BMA always strives to find the best solution to suit the specific needs of each customer. For the requirements of the cane sugar industry, too, BMA can rely on a highly competent team of experts. In general, the engineering services for cane sugar factories are the same as those for sugar refineries and beet sugar factories:

- On-site consulting, e.g. regarding factory optimisation and expansion
- Basic concepts, e.g. for new factories or for the expansion of existing plants
- Energy surveys for optimised energy consumption
- Basic engineering, e.g. for new factories or for the expansion of existing plants
- Detailed engineering in connection with machinery and equipment supplies



*Extraction and cleaning balance  
for a cane sugar factory with  
diffuser*

Although highly specific know-how is required for the cane sugar industry, various technological aspects that have proved to be successful in the beet sugar industry can also be effectively used for the optimisation of cane sugar factories.

*Dr Fahmi Brahim  
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## Benefits

- Feasible solutions that meet the customers' needs
- Combination of know-how for sugar refineries and the beet and cane sugar industries
- Optimised capital and operating costs