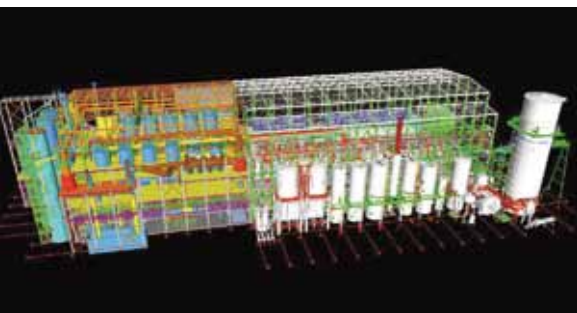


Project progress at the Nile Sugar factory in Egypt



*3D model of the
main process building*



*Assembly of steel structures and equipment
for the main process building
(as of 6 January 2009)*

In September 2007, the consortium formed by the companies BMA, Eberhardt and Maguin was awarded the contract for the supply of the main components for the new sugar production factory "Nile Sugar" by the Egyptian Nile Sugar Company (see BMA Information 46/2008).

BMA is acting as the leader in this consortium, with a share of approximately 2/3 of the overall order volume.

The sugar factory has been designed to process a nominal capacity of 7,000 t/d of beet during the beet campaign and a nominal capacity of 1,200 t/d of raw sugar in refinery operation.

The basic and detailed engineering for the factory have just been completed at the end of 2008 and include the following:

- Equipment list and specifications
- Mass and heat balances
- PIDs
- Location and load plans
- Process descriptions
- Piping design
- Basic engineering for electrical and instrumentation equipment

For the following stations, BMA supplied the core components (in brackets) and documentation:

- Extraction (countercurrent cossette mixer, extraction tower, pulp presses)
- Juice purification (membrane filter presses, cartridge filter, ion exchanger)
- Condensate system (condensate flash tank)
- Thick-juice filtering

- Sugar house (batch-type vacuum pans, horizontally cascaded crystallisation unit, B1750 and K2300 centrifugals, VKT, vertical cooling crystalliser, massecuite pumps, slurry mill)
- Condensation (vacuum pumps)
- Sugar drying (drum dryer, fluidised-bed cooler)
- Bagging (storage silos, bagging machines)
- Process control system and measuring & instrumentation equipment (complete)
- Raw sugar melting (melting mingler)

The scope of supply for these stations also includes all conveying elements, pumps, plate heat exchangers, and agitators.

As part of BMA's service provision, about 2,500 shop drawings including parts lists have been prepared and delivered on time for the local manufacture. The quality assurance for the parts manufactured locally is performed continuously by BMA specialists at the manufacturers' shops in Egypt.

The last pieces of equipment were shipped in February 2009, although construction already started at the beginning of October 2008, supervised by two BMA specialists.

Plant commissioning is scheduled to take place in 2009.

Michael Oehlmann