



Citrique Belge s.a. produces citric acid based on a biological process. Citric acid is a weak organic acid, which serves as a natural preservative and can also be used to an acidic, or sour taste to foods and soft drinks.

Currently, the biological acid solution, which contains a part from citric acid and a lot of other components, is purified by forming tricalciumcitrate (TCC) and separation of this solid from the biological acid solution. However, by forming dicalciumcitrate (DCC) instead of TCC the use of chemicals could be limited.

The formation of dicalciumcitrate DCC requires high temperature as well as a longer reaction time. Therefore, a new tank park and product recycling will be installed. Additionally, the existing installations have to be modified and extended.

Process Optimisation

Citrique Belge, Belgium, 06/ 2010 - 10/ 2011

CHEMICALS

PROJECT REALIZATION

BELGIUM

CitriqueBelge // Innovative and progressive

Principal project data

Process optimisationproject that will thoroughly change thepurification process of citric acid.

- New tank park
- Modification/ extension of existing installationst

Scope IPS

Project Preparation

- Process description

Project Realization

- P&IDs
- Budget and budget tracking
- OTS and follow-up
- Extended basic engineering
- Procurement
- Site coordination
- Commissioning and training
- Documentation and CE

IPS operational unit(s)

- IPS Belgium sa

