



**Increased yield and  
productivity in the  
agrochemical industry  
with BE reactors  
& Cryo-Lock® agitators**



**HIGHLIGHT**

Agrochemical | Case study

# Customer Introduction & Requirement



Our Group previously executed a new project for a large, India-based agrochemical company. The customer had shared their technical specification and varying requirements. Pfaudler combined its strong technical skills and the Group's overall capabilities to successfully complete the project. After a few months of commissioning, the customer turned to Pfaudler to look at improvements in productivity and yield.

## Challenge to overcome:

The plant was built based on customer's research and data. During commissioning of the new facility, the customer saw a shortfall in yield and productivity in comparison to the anticipated forecast. The customer approached the GMM Pfaudler Group to identify the issue and find a viable solution to increase the yield.

# Pfaudler Group Approach

S T E P

01

The customer had planned to expand its facility, however the loss of yield was a major concern and hence approached to Pfaudler to find a viable solution to increase the yield.

S T E P

02

Pfaudler sent a team of engineers to the customer site to observe / study the operation and process in detail.

S T E P

03

Our engineers identified the agitator set up as a opportunity for improving the performance. The CE style reactor had a single stage, onepiece construction welded agitator which was not giving adequate mixing performance for the desired productivity and yield. Our team reviewed and found 2 point to address: insufficient mixing as observed by reviewing the flow pattern and low heat transfer performance.

S T E P

04

Our engineers offered up a technical solution to address both points above by replacing the existing CE style reactor that had a welded one-piece agitator with a BE style reactor that had a specially designed Cryo-Lock® 2-piece, multi-stage agitator.

S T E P

05

The customer took Pfaudler's recommendation and installed the new design, BE style reactor with the special Cryo-Lock® agitator, for its phase 2 expansion.

S T E P

06

After commissioning phase 2, the customer confirmed that they were able to achieve the desired productivity and yield.

## Results

✔ Seeing the success of phase-2, which had a total of 26 reactors, the customer decided to **replace all phase-1 reactors with BE style reactors complete with Cryo-lock® agitators**

✔ **With the new set-up, the customer is now reaping the benefit of increase in yield and productivity**

# GMM Pfaudler

To learn more about  
the case study:  
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