

Super-accelerated scale-up & commercialization of complex processes

Client - EU based a big pharma company associated with Laurus from almost 10 years in various developments and commercialisation projects, which are still with Laurus for production of multi ton level.

Program

- Tech transfer project, with two KSMs and the final intermediate is to be dispatched to customer for further development at their end.

Challenge

- In the first campaign, both KSMs were procured and the campaign is completed successfully.
- In the next campaign, due to cost and availability of one of the KSM, adopted Laurus process for preparing it.
- In scale up the chemistry worked differently and could not attain the target quality and yield.

Solution

- For the cost contribution, LL has the process for development of the KSM
- During the scale up, the issues of less conversion of the reaction was observed and could not yield as expected.
- LL worked multiple trials in the lab, however, exact reason not identified for several trials.
- Finally while taking the batches in kilo lab, it is identified that the scale up doesn't suit to the process. Small scale batches suits as the energy dissipation works for the reaction.

Outcome

- Validations were successfully made and concluded.
- Client significantly increased the purchase volume from Laurus from earlier projected numbers.
- ~30MT EVERY YEAR. CONTINUOUS CAMPAIGN.