

Yield improvement in B-Complex capsules

Industry Type >>>

Pharmaceutical

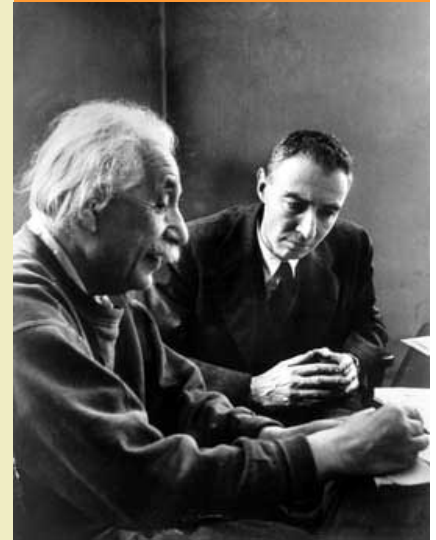
The Client >>>

C_PH_PF

Improvement Tool >>>

Six Sigma

Light House Case study



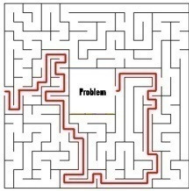
Scenario >>>

C_PH_PF is the world's largest research-based biomedical and pharmaceutical company committed to find sustainable solutions to healthcare challenges. To ensure it delivers value to its patients and customers needs, they are focused in continually improving the way it does business. One of the critical high volume products offered by the company is Becosules capsules. Consistent batch yield of the product is essential to reduce product cost and improve product quality.



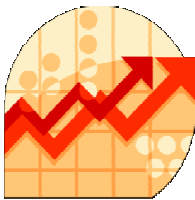
Business Challenge >>>

Data for the preceding four months indicated yield variation between 97.6% and 99.1%. Material loss due to spillage and improper machine settings also contributed to the yield deficiency. Inconsistent yield at various production stages resulted in a significant financial impact. The scrap created due to material wastage too affected environment and health safety. The goal was to obtain consistent batch yield of 99.0%



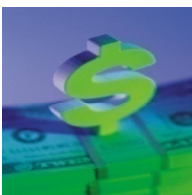
The Solution >>>

Risk assessment was conducted to reduce scrap due to material wastage. Process experts and machine experts collectively brainstormed solutions to counter these risks. Pilot runs of process were carried out implementing the solutions generated. Operator training documents, standard operating procedure, and the machine details for encapsulation were revised as a control measure.



Benefits >>>

- The process capability was improved from 1.92 Cpk (Acceptable) to 3.22 Cpk (Excellent) in the pilot runs. The project showed consistent batch yield of 99.22% challenging the existing paradigm for yield.
- The new process produced lower number of batch rejects and less wastage
- Improved team interactions and shop-floor staff involvement



Financial Benefits >>>

Cost Savings of Rs.36,06,000 equivalent to \$ 78,000 per annum

For further information, please contact >>>

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