

# De-risked an organization from a potential loss of US\$ 50 million by implementing semi-automatic visual inspection

## BUSINESS CASE

### Customer Trend:

- Heavy demand for planned production drugs as these drugs are listed in the top 50 necessary drugs by the World Health Organization

### Organization trends

- The commercial plan was ramped-up in order to meet the excess demand
- There was a need to change the inspection from manual to semi-automatic to reduce cycle time
- Key products are manufactured only at the current site, making the improvement very important

### Competition trend

- Very few approved suppliers of key products in the market

## CHALLENGE

### What is the challenge

- The current manual inspection speed is slow when compared to the expected inspection speed
- There is a chance of a potential bottleneck during production ramp up

### Where is the challenge

- Visual Inspection

### When was the challenge identified

- Commercial rollout monitoring meeting

### How much is the challenge

- As-is inspection speed is 95 vials per minute as against the target of 270 vial per minute

## IMPACT

### What is the impact

- Inability to meet the forecasted commercial plan for the first year of green field project

### How much is the impact

- The potential profit impact is estimated to be above US\$ 50 million

## TARGET

### What is the Target

- To move from Manual to semi automatic visual inspection and increase the output of the line

### How much is the Target

- Increase the inspection speed from 95 vial per minute to 270 vial per minute

## OUTCOMES

### Improved Profits

- Avoided a profit impact of US\$ 50 million by de-bottlenecking and increasing the rate of inspection

### Increased Revenues

- Projected improvement in revenue as the site is ready for commercial manufacturing faster

### Operational Outcomes

- Increased the number of vials inspected to **300 vials per minute** leading to faster inspection
- The chances of bottleneck occurrence are drastically reduced

## Delivered using:

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