



Jindal Stainless Limited

# Reducing CO levels to eliminate the chance of explosion

**Award:** Safety  
**Category:** Workplace improvement

## Challenge

There is a chance of an explosion in the bag house due to the high carbon monoxide (CO) level. The CO level must be controlled to stop this occurring.

# Action

Opening and closing commands were added to the swivel elbow. When the CO content in the fume gas exceeds 3%, the swivel elbow opens to the maximum to provide fresh air to the bag house. During this operation the fixed elbow remains outside the suction line. When the CO content in the fume gas drops below 3%, the swivel elbow closes and remains in the suction line.

# Outcome

After implementing this modification, the chance of an explosion in the bag house has been completely mitigated.

