

# A MAJOR AUTOMATION UPGRADE IS TRANSFORMING FLY ASH HANDLING AT JSW ENERGY

SMARTER  
HANDLING.  
STRONGER  
OPERATIONS

## 1. THE PROBLEM BEGINS

Inside JSW Energy's Jaigad Thermal Power Plant...

Fly ash handling was a nonstop operation. But as production increased, the old manual packing system started slowing everything down.

"Dispatch is taking too long again!"

"We need more manpower just to keep up!"

- Dust everywhere.
- Bag accuracy becoming inconsistent.
- Truck loading delays increasing.

## THE CHALLENGE WAS NO LONGER JUST HANDLING FLY ASH

## 2. IT WAS ABOUT HANDLING IT SMARTER.

We can't keep adding manpower every few months!

Truck loading queues are getting longer every day!

And this dust during filling is making operations difficult!

That's when JSW Energy trusted VT Corp to engineer a smarter and more efficient way forward by completely integrating VTC's Jumbo Bag Filling & Handling Solution

Instead of simply installing a machine, VTC's complete movement system right from silo feeding to bag filling, conveying, and final truck loading.

## SUDDENLY... A NEW SOLUTION ENTERS THE PLANT FLOOR.

What if the entire process could run automatically?

Automatically? From filling till truck loading?

Exactly. One connected system. Faster movement. Cleaner operations.



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### 3. THE PERFECT COMBO

Wait.. everything is moving without manual handling?

That's Smart Automation



THE BACKBONE OF THE NEW AUTOMATED OPERATION



JUMBO BAG FILLING MACHINE



AUTOMATED SLIDER MECHANISM



TRUCK LOADING INTEGRATION



CONVEYOR-BASED BAG TRANSFER

### 4. ONE WEEK LATER

Hold on... how much output are we running now?

Earlier we were doing 8-9 bags per hour...

Now we're touching 18-20 bags per hour!

Truck movement is smoother than ever

AND MANPOWER

One operator per machine is enough

Earlier we needed 3-4 people for this!

Where did all the dust go?

Enclosed filling arrangement.



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UP TO  
98% DUST  
REDUCTION

It's actually cleaner  
inside the plant now!

WOW  
Bag accuracy is more  
consistent too.

THIS DOESN'T FEEL LIKE  
THE SAME OPERATION  
ANYMORE.

Less wastage.  
Faster loading.  
Better flow.

## 5. THE FUTURE IS AUTOMATED

This project didn't  
just increase  
output...

It completely  
changed the way we handle  
fly ash.

Cleaner  
environment.

Better  
consistency.

Faster movement.

Less manual  
dependency.

That's what happens  
when intelligent  
engineering meets  
industrial automation.

This project was  
not just about  
increasing output.

It was about transforming the way fly ash  
handling operations function through smart  
automation and intelligent engineering.