

## DESCRIPTION

Automatic electroplating plants are employed to minimize manual work and also to reduce wastage. Due to precise control of the process operation, the product quality is also maintained. Automation prevents direct exposure of workers to hazardous chemicals, thereby eliminating accidents.

## TECHNICAL DETAILS

The barrels / jobs are switched from one tank to the other using a programmable logic controller (PLC) controlled transporter. The programs for the PLC circuits are made in such a way that the barrels / jobs switching time are maintained automatically without any manual intervention.



Source: Automatic zinc plating plant / Sri Meenakshi Enterprises, Chennai

## CASE STUDY

An automatic zinc plating plant installed in M/s Sri Meenakshi Enterprises, Chennai is running successfully for the past 4 years.

<b>Company Profile</b>	
<b>Location</b>	Chennai
<b>Employees</b>	14
<b>Annual turnover</b>	INR 60,00,000
<b>Main products</b>	Zinc plating job works
<b>Annual production capacity</b>	1,500 tonnes

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## TECHNICAL BENEFITS

1. Minimizes manual labor
2. Enhances productivity
3. Product quality improvement
4. Avoids water and electrolyte spillage

## ENVIRONMENTAL BENEFITS

1. Water conservation
2. Less use of chemical as spillage is minimized
3. Energy conservation on account of precise process control

## FINANCIAL BENEFIT OF CASE STUDY

<b>Investment amount</b>	INR 1,20,00,000
<b>Payback period</b>	4 Years
<b>Net savings</b>	INR 2,000 / 1 Ton of output
<b>Lifetime of investment</b>	10 Years

## FURTHER INFORMATION AND CONTACT

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