

## CASE STUDY

### Optimizing Utility Costs Through Outsourced Steam Supply at JB Pharma

#### Overview

Steam is a critical utility in pharmaceutical manufacturing, supporting essential processes such as sterilization, heating, and cleaning. Traditionally, JB Pharma relied on in-house dual-fuel steam boilers, operating on Piped Natural Gas (PNG) and High-Speed Diesel (HSD)/Light Diesel Oil (LDO), installed across multiple plants.

Recognizing the operational and financial burden of in-house boiler operations, JB Pharma adopted an innovative solution: purchasing readymade steam via pipeline from nearby industrial providers.

#### Conclusion

JB Pharma's transition to outsourced steam supply demonstrates how pragmatic utility management can deliver cost optimization, operational efficiency, and environmental benefits. By aligning with industry trends and embracing flexible models, the company continues to reinforce its commitment to sustainable and smart manufacturing.

#### Key Outcome and Impact

To reduce overall operational costs while maintaining consistent, high-quality steam supply without compromising production timelines or regulatory compliance.

#### Solution

- Implemented the model at D9 and T110 plants, covering multiple production blocks over 2–3 months
- Secured steam at a flat rate of ₹0.65/kg, ensuring cost stability and reliable supply
- Eliminated boiler operation and maintenance costs, reducing overall utility overheads
- Achieved energy savings by avoiding boiler power consumption
- Optimized manpower by removing the need for dedicated boiler operators
- Enabled production teams to focus on core operations, improving productivity
- Enhanced sustainability through reduced fuel use and emissions
- Introduced a scalable, cost-efficient utility model for potential rollout across other sites
- Improved regulatory compliance and production reliability through uninterrupted, quality steam supply