



INTRODUCTION

A leading Mexican company in the food and beverage market, with a strong international presence. Founded in 1963, the company focuses on the production and commercialization of high-quality food and beverage products.

To optimize water use and promote environmental sustainability, it implemented a wastewater treatment plant.

This system enables water recovery for use in cleaning vehicle fleets and service areas, while also supporting the company's goal of being recognized as a "green" enterprise.

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WASTEWATER TREATMENT PLANT

DISTRIBUTION CENTER



PROBLEM

The Puebla Distribution Center lacked a wastewater treatment system, creating a need to implement a solution to recover treated water. This water would be used for vehicle washing, cleaning service patios, and contributing to the company's environmental goals..

SOLUTION

The proposed solution included:

- Treating black and grey water from bathroom discharges (washbasins, toilets), dining areas, and car washes.
- Implementing a treatment plant with a capacity of 15 m³/day (2.29 gpm) and an organic load of 250 mg/L, using the IBYPACKMC80-C package plant.

KEY CONSIDERATIONS:

1. High-quality effluent output.
2. Minimal land usage.
3. Reduced civil works compared to other systems.
4. Limited operational and maintenance costs.
5. Reuse of activated sludge as bio-fertilizer.

WATER USAGE:

Treated water is now used for:

1. Cleaning service areas and vehicles.
2. Reuse in sanitation systems.

BIOLOGICAL SLUDGE MANAGEMENT:

- Before: None
- After: Activated sludge is reused for soil improvement

IMPLEMENTATION:

Previously, the site had no wastewater treatment system. The new plant treats 15,000 liters/day (2.29 gpm), ensuring compliance with NOM-003 (Mexico's wastewater reuse standard).

BENEFITS

- Reuse of treated water for truck washouts and cleaning of outdoor infrastructure.
- New sustainable water source for irrigation of green areas and landscaping.
- Reduced reliance on municipal supply and improved environmental performance.
- Full compliance with NOM-003 effluent discharge standards.