# Daikin Industrial Factory Visit: Neemrana - Overview

•Company: Daikin India Pvt. Ltd.

•Location: Neemrana, Rajasthan

•Industry: HVAC (Heating, Ventilation, and Air Conditioning)

#### •Purpose of Visit:

- •Understanding manufacturing processes and automation in air
- •conditioning production.
- •Exploring lean manufacturing, energy efficiency, and quality control measures.
- •Observing Daikin's sustainability and green energy initiatives.



by Radhika Sarin



# Problem Statement: Key Challenges Identified

During the visit, we identified several key challenges impacting Daikin's operational efficiency. These include bottlenecks, workforce productivity, sustainable energy use, and inventory recording issues.

#### **Bottlenecks**

Analyzing **bottlenecks** in the supply chain and factory workflow.

## Workforce Productivity

Evaluating **workforce productivity** and machine downtime impact.

## **Data Analysis:**

- •Production Data: Units manufactured per hour, defective rate, machine uptime vs. downtime.
- •Energy Consumption: Power usage per unit production, renewable energy sources utilization.
- •Supply Chain & Inventory: Inventory turnover ratio, stock delays, procurement issues.
- •Labor Efficiency: Worker output per shift, training effectiveness, absenteeism trends.
- •Quality Control Data: Defect types, rejection rate, compliance with global standards.

# Major Observations: Key Findings

Our factory visit revealed several qualitative insights. These observations highlight areas for process improvement and enhanced efficiency.

1 Manual Handling

Manual handling of materials increases cycle time in specific areas of the factory.

Layout Inefficiencies

Layout inefficiencies cause unnecessary material movement and worker fatigue.

3 Lack of Standardization

The lack of standardized work instructions leads to process variations.



# Insights and Recommendations: Actionable Strategies

Based on our findings, we propose actionable recommendations. Prioritized by impact and feasibility, these strategies aim for tangible improvements.

1

#### **Automated Handling**

Implement automated material handling. This system could reduce cycle time by 15%.

2

### Layout Redesign

Redesign the factory layout to optimize material flow and reduce wasted steps.

Standardized Instructions

Develop standardized work instructions to reduce variations and ensure consistent quality.



3

# Project Stats:

