

ABSTRACT

This research examines how the Sandal Bandol Calvin Micro, Small, and Medium Enterprise (MSME) can better manage their raw material inventory. The MSME faces a significant challenge: frequently struggling to align available raw materials with customer demand, which ultimately hinders production. This issue is crucial because despite high demand for slip-on sandals, this MSME often experiences raw material shortages. As a result, production processes are disrupted, and customer trust can decline. To address this problem, the researchers propose an innovative solution by combining two methods: Winter Exponential Smoothing for demand forecasting and Material Requirement Planning (MRP) for planning. The primary goal is to create an accurate raw material procurement schedule, ensuring the availability of materials aligns with production needs and market fluctuations. The study's findings indicate that by implementing these methods, the MSME successfully reduced raw material shortages drastically and improved production efficiency. With better planning, Sandal Bandol Calvin MSME can optimally meet customer demand, supporting their business sustainability and future growth.

Keywords: *Raw materials, material requirement planning, inventory control, forecasting, slip-on sandals, SMEs*