

ABSTRACT

PT. Dirgantara Indonesia is a prominent aeronautical manufacturing company in Indonesia that has successfully produced an impressive array of aircraft. Some of these include the N219 Nurtanio, NC212 Family, CN235 Family, CN295, AS550, AS565 MBE, Superpuma family, and Bell 412EP. However, the diversity of aircraft produced also implies a range of materials required, necessitating effective inventory management. Challenges arise when certain materials purchased by PT. Dirgantara Indonesia end up being stored for extended periods, subsequently leading to a significant increase in inventory costs. To address this issue, a more meticulous inventory management approach is required. This study employs the ABC classification method to categorize materials based on their value. In this context, materials are divided into three categories: class A (contributing 80% of the total material value), class B (contributing 15% of the total material value), and class C (contributing 5% of the total material value). The Tchebycheff method (1967) is applied as a suitable approach due to the non-normal distribution pattern of the data. The results derived from this method indicate a substantial potential for inventory cost reduction. By applying the Tchebycheff method (1967), PT. Dirgantara Indonesia has the potential to reduce inventory costs by up to 46%, from an initial amount of approximately Rp 910,870,735 to around Rp 493,350,122. This finding holds the promise of providing valuable insights into future inventory management, positively impacting overall efficiency. Thus, this step becomes a significant milestone in enhancing inventory management processes that can influence the company's overall performance.

Kata Kunci : ***Overstock, ABC Analysis, Tchebycheff Formulation, Inventory Management , C- Class***