

ABSTRACT

Inventory management is a crucial aspect in ensuring the smooth operation of an entity, especially in electronic goods warehouses. Stock take activities or physical counts of inventory are a must to ensure the availability of goods, although they often involve significant costs and time. FRI Electronic Warehouse is a specialized storage warehouse for electronic goods. FRI Electronic Warehouse has shrinkage in the Monitor product category of 31%, TV 31%, Printer & Scanner 19%, and CPU 19%. The largest shrinkage is found in the Monitor and TV product categories, which is 31%. The largest shrinkage contribution is caused by damage to goods or products by 64%, then misplaced 29% and unidentified serial numbers by 7%. One of the impacts of the lack of stock take activities is the high number of damaged electronic goods. Based on the recorded data, there were various electronic goods with a total loss of Rp10,289,000. These losses were dominated by damage to items such as monitors and CPUs, which reached significant values due to the absence of a structured stock management system. In addition, the high level of damage to goods indicates that the current stock take activities have not been able to minimize the risk of damage to goods. The problem that will be discussed in this research is how to determine and establish the right stock take policy in the application of information systems to minimize shrinkage in stock take activities at the electronic goods warehouse, Faculty of Industrial Engineering, Telkom University. Therefore, a stock take policy is needed that can minimize damaged goods. The ABC Cycle counting approach is proposed as a solution that can help overcome this problem. This method allows focus on items with the highest value or frequency of use, so that stock take activities become more targeted and effective. With the implementation of this approach, it is expected that the level of damage to goods can be minimized and the efficiency of warehouse operations can be significantly improved. Cycle counting is an effort used to calculate the stock of goods in the warehouse and then compare it with the stock that has been recorded. In this final project, a website-based stock take information system is created to assist stock take activities at the FRI Electronic Warehouse. The expected thing is to help reduce

the problems contained in the stock take process, in the form of recording the actual stock difference results and stock in the system. This information system contains dashboards, item transactions, item conditions, item categories, item data with ABC analysis categorization with a cycle counting approach where the process of stock taking goods at the FRI Electronic Warehouse becomes more efficient and is helped by the existence of a website-based information system.

Keywords: Stock take, Item Damage, Shrinkage