ABSTRACT

Information and communication technology (ICT) services and telecommunications networks in Indonesia are needed in this digital era. PT XYZ is a company engaged in this field, where one part of its commitment is unlimited access to information and communication for all Indonesian people, especially the West Sumatra region. Therefore, to fulfill this commitment, PT XYZ needs to provide network infrastructure construction and management services as a form of support to achieve the success of this commitment. However, there is a problem at PT XYZ, especially in the inventory and asset management area of the material inventory work unit where the amount of inventory from material inventory is always higher than the amount of demand, resulting in overstock. The cause of overstock is a less than optimal inventory policy, and there is no classification for each material in determining which materials must be strictly controlled and prioritized.

In this research, the methods that will be used to design the proposed inventory policy are the continuous review (s,S) and periodic review (R,s,S) methods, and for material classification using ABC analysis classification.

By using this method, a classification is first obtained for category A there are 5 units of material, category B there are 3 units of material and category C there are 4 units of material. Furthermore, category A uses the continuous review inventory policy method (s, S) and obtains a decrease in the amount of inventory by 67,9% and also a decrease in the total cost of inventory by 6,17%. Category B also uses the continuous review inventory policy method (s,S) and obtains a decrease in the amount of inventory by 65,9% and a decrease in the total cost of inventory by 18,20%. Finally, category C also uses the periodic review inventory policy method (R,s,S) and obtains a decrease in the amount of inventory by 74,9% and a decrease in the total cost of inventory by 12,76%.

Keywords: ***Overstock, material inventory, continuous review (s,S), periodic review (R,s,S), ABC analysis.***