ABSTRACT

PT PLN (Persero) is one of the State-Owned Enterprises which is engaged in the provision of electric power. One of the tasks of PT PLN (Persero) is to install. In the new installation process required material to install installation of storage material two pieces of warehouse Indoor and Outdoor warehouse.

PT PLN (Persero) has not used the standard calculation method in determining inventory policy, resulting in stock out and low service level PT PLN (Persero) Banjarmasin Area.

The demand for materials tends to fluctuate so that sales are probabilistic but there are some materials whose demand distribution is unknown. In this research, the probabilistic model of Continuous review (s, S) System and tchebycheff model is used to determine the optimum inventory parameters with the optimum interval and size of order quantities, reorder point, safety stock for each new mounting material, Service level.

The result of probabilistic method of Continuous review model (s, S) System and tchebycheef is obtained stock lot size, safety stock, optimal reorder point. Minimize total inventory cost up to 62,1% in Outdoor warehouse, 66,8% in Indoor warehouse, and improve service level 13%.