ABSTRACT

Indonesia is an archipelagic country that has abundant natural resources, especially in the maritime sector. Marine products are one of the main livelihoods of the Indonesian people. One example of a region that has abundant marine wealth is Aceh Province, which is located at the western tip of Indonesia. Being a fisherman is one of the livelihoods for the people of Aceh who live on the coast.

Aceh Province should have advanced fisheries and marine sector and be able to prosper its people, especially fishermen. However, there are still many aspects that can be improved, especially in the welfare of fishermen which is measured using the Fisherman's Exchange Rate (NTN) as an indicator. This study aims to provide an alternative for government policy in improving the welfare of fishermen, especially in Banda Aceh City using a dynamic system method that will be simulated using Vensim software to determine the NTN value that will be obtained if adjustments are made to several variables that

affect NTN. The selected variables are the length of the supply chain and the allocation of fish distribution. After the simulation, the two selected variables influence the NTN value which affects the level of welfare of fishermen. The adjustment can be a proposal to the government in determining policies for fishermen as an effort to improve the level of welfare of fishermen.

Keywords ---- **Aceh, Supply Chain, Fishermen's Exchange Rate, Dynamic System, Vensim**