

## ABSTRACT

In the development of telecommunication technology has been signed with changed of analog technology to a digital or been cahnged POTS service to be a broadband services where need a network systems wich a large capacity, flexible, safe and cost effective. The existing copper network on Kandatel Bandung wich serve POTS services, that must be optimalize which can get to serve demand of broadband services.

In this final assignment will be study about prediction of telephone demand and the performance of existing copper for broadband services wheter cannot be denied that fiber optic is the exactly answer in the future for broadband distribution. Kandatel Bandung implemented HDSL technology to serve demand of broadband services with exploited of existing network.

From the analysis and evaluation we got the the conclusion that froom prediction of telephone demand until 2007 years, that just a few demand which needed about broadband services. The analyse of existing network performance got electric parameters of cable that appropriate with standar parameters it caused a good performance on implementation of HDSL technology.