

ABSTRACTION

The role of telecommunication service as one of support factor to develop economic in Indonesia has big domination. The fact cause need rising of various of telecommunication service, especially telephone service. They should be anticipate by network expansion with expand service area house cable (RK) are included adding cable network.

Cable network capacity at STO Rancaekek has not be capable anymore fullfill telephone need rising which this fact is marked by many waiting list of new telephone costumer. Based on the fact, ekspansion of cable network should be done as soon as possible.

The script "Reconfiguration Planning of Network Using Fiber Optic as Primary and Cooper Cable as Secondary at STO Rancaekek" analized cable network expansion planning at STO Rancaekek area use primary parameter such as installed telephone developing data, the number of people, PDRB. By estimate of macro and micro approach were result number of telephone service need at the STO for five years is 11,241 sst. Based on the number is planned number of primary and secondary cable needed, and expansion cable house (RK). The calculate result implicate need expansion of 8 row fiber optic which needed 36 core with capacity 4,148 sst and secondary cable added are 7040 pair with in use are 6950 pair. And five instalation cable house.

The achievement of network reconfiguration at STO Rancaekek can handle new telephone connector demand rising until year 2007.