

## ABSTRACT

The development of telecommunication technology walk very fast along with the consumer need for telecommunication services which is more various. The various demand must be fulfilled with reliable telecommunication technology. The application of Fiber In The Loop is one of the answer from above problems, since Jarlokaf own various excellence and mainstay which is not owned by network access to base on other transmission media.

The Final Project will design Fiber In The Loop Planning in area of Cempaka Putih Jakarta, specially at Cempaka Mas Superblock which is one of the biggest grocery commerce in South-East Asia.

This Planning will consist of identification and demand forecasting, boundary service, technology selection which include application technology, implementation technology, transmission technology, configuration and design of Fiber In The Loop. The performance of this planning is able to look in power link budget analysis, rise time budget analysis and also optical channel losses calculation.