ABSTRACT

Geographical Information System (GIS) is a kind of information system that gives many information on visual or graphical one using a geographical map as an interface. Main part on GIS arranged by layering concept and relation. Each layer on visual information descript some data and information that apropriate with defined relation. Data and information that have been defined are dynamic.

This project will make a GIS application program on existing copper access network information system in PT. PERTAMINA UP IV CILACAP. This information system will be build by mapping and layering process using copper access network components. Mapping and layering process will be made as hierarchy concept and must have relation with database that make it work.

In this GIS application including in many information which needed by this program to process the data, such data consist map location or area, used capacity in this access network, number of VKU or Distriution Point and capacity, number of Cabinet and capacity, length of copper cable, an any other data, so when the engineer using this program, he can operating or do cable aministration on this access network easily.