ABSTRACT

The development of the world of technology is currently growing rapidly. Especially in the field of telecommunication. One of the technology used is fiber optic technology that has been used in telecommunication service providers. Optical fibers have a material of glass fibers and transmit data streams wireline or directionally. Characteristics of the optical fiber that has a core of glass fiber and has a layer. Fiber optic cable also has advantages compared with ordinary copper cable that has data transfer speed and better signal. It also has the advantage of resistant to noise and radio signal interference. The growth of technology makes telecommunication service providers to switch to optical fiber. PT. Telkom, a state-owned company (BUMN), also uses fiber optic cable to distribute signals for its products, namely indihome fiber. Needs maintenance and maintenance on this network, because this network is susceptible to interference. Therefore required maintenance and maintenance so that the network remains good. In the process of network maintenance required data validation to find out how much damage and which ports are damaged. So it can be directly handled by technicians.

Keywords: wireline, noise, BUMN (Badan Usaha Milik Negara), indihome fiber, maintenance