ABSTRACT

Optical fiber is a medium of high-speed telecommunications transmission, basically optical fiber made of very fine glass fiber material which is capable of transmitting light waves with a light reflection method on the walls of the fiber optic core. The Pontianak-Siantan link area is 14,385 km with a total of 14 cores while the Siantan-Pinyuh link area is 50,034 km with 11 cores. The effect of these losses can be seen by making measurements made using the EXFO FTB-200 OTDR and compared with the results of standard calculations using the power link budget calculation method. Based on the results of the comparison between the results of measurements and calculations, it can be seen the performance of optical fibers. This can be done by measuring and calculating the Pontianak - Siantan and Siantan - Pinyuh links. Thus the core is obtained with the total attenuation value on the Pontianak-Siantan link located on the 17, 18, 21, 23 and 24 cores which has a value of 5.092 dB while the Siantan-Pinyuh link is obtained with the total attenuation values on cores 2 and 7 are 15.157 dB and 15,154 dB, For the calculation using the link budget method on the core 21 pontianakakak link the average calculation of the 5.092 dB power budget link while on the core 7 siantan-pinya link the average calculation value of the link is the power budget of 15,154 dB,

Keywords: Optical Fiber, Loss, Connection, Power Link Budget