

ABSTRACT

In order to give telecommunications services, PT Telkom nowadays uses extremely high quality telecommunication device. It is used to give some satisfaction to customers which store much benefits to the enterprises it targeted before. One of that device is Dense Wavelength Division Multiplexing (DWDM). Before use this device, it should be tested for its performance referred to RSTI divisions standard and rules.

In this final project is going to test and analyze. Parameter tests are cut off wavelength, light source, power output, SMSR, Extinction ratio, attenuation, and sensitivity. The testing are focused on some referred work parameters of Dense Wavelength Division Multiplexing then decide appropriate level to the specification.

By measurement result and simulation as a whole from specification that was established then peripheral DWDM is referred as either until competent for in application because parameters that show will peripheral job are referred pass or fulfill specification that was established from factory, peripheral DWDM is referred more competent used fiber optic singlemode type G.655 is compared to type fiber optic G.652 because damping that produced smaller G.655 is compared to G.652. And the usage of beet big rate will influence value dispersion that produced will getting smaller.