

ABSTRACT

High demand from cellular subscriber makes operators have to add the BTS to increase the coverage area. Location BTS planning have to support with good link backbone planning. The planning on paper does not guarantee can be realized well, because the real condition on field can be different with our expectation before, so, location survey and choosing equipment needed in order to system work well.

In this final project , microwave backbone transmission link planning will be done for 2 central point (LSK021G and LSK010G), and to build the repeater for BTS Embun Pagi microwave transmission link, the planning began with choosing new site location candidate (P, Q, and R), then survey, choosing equipment, and link budget analysis.

Planning result including choosing one candidate to realized, frequency, antenna diameter, antenna height, and tower height needed for Line-of-Sight condition and then can work very well.

Key words: BTS, Transmission.

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