

ABSTRACT

Parongpong West Bandung area is a crowded tourist area. The need for quality mobile communications services either voice or data is needed at this location. After the measurement, it turns out frequent disturbances 3G networks including signal quality is poor, the data connection fails, and a small coverage area.

In this Final Project, will be measured by the quality of the 3G network using the drivetest method. These measurements were performed using software TEMS Investigation 11.0.1. The case study in this Final Project is Parongpong area of West Bandung. From the results of these measurements will be analyzed, if found an issue will be the optimization in that area.

Based on the analysis of problems the bad coverage is one that has a value ranging simulation before -102 dBm to -92 dBm and -92 dBm range after simulation to -82 dBm . Problem 1 simulation before bad quality ranges from 12 dB to > -9 dB , and after simulation ranges > -9dB . Problems dropcall 1 which has a value of simulations before RSCP range -92 dBm to -82 dBm and -92 dBm RSCP after simulation to -82 dBm , and simulation before Ec / No -22 dB , simulation after Ec / No > -9 dB . Problems dropcall 2 has a value of simulations before RSCP > -82 dBm and after RSCP that is > -82 with coverage that is more focused , and simulations before Ec / No -9 dB and simulation after Ec / No -9 dB . Problem low throughput average amount of success before the simulation is 95.337 % RSCP and Ec / No 98.853 % , the average amount after the successful simulation is 97.3737 % RSCP and Ec / No 99.256 % .

Keywords: RF Optimization, Drive test, TEMS Investigation 11.0.1, KPI, Parongpong.