

## ABSTRACT

*In Gading Raya Golf Residential of Tangerang City is one of the areas urban having population density of a high building. In Gading Raya Golf Residential of Tangerang City The need for quality mobile communications services primarily in the data are required for the addition of a site. After done measurement, it turns out that the site was already on air affect the performance of other sites that have an impact on the low level of performance of 4G network in Gading Raya Golf Residential of Tangerang City.*

*In this final project, carried out the measurements to verify a new site that is in good shape or not by the method of drive test SSO and drive test SSV. Drive test is done using software Genex and Genex 3.15 Probe Assistant. As for the territorial case studies at the end of the Project is to take in Gading Raya Goolf Residential of Tangerang City. From the results of measurements done the analysis later found problems. For that to be done in the area of optimization.*

*Based on the results of the analysis there is a problem of bad coverage 1, which has a value of RSRP drive test before range-104 dBm to-101 dBm and implementation after range-80 dBm to-95 dBm, bad coverage 2 which has a value of RSRP drive test before -95 dBm to -110 dBm and implementation after range -80 to -95 dBm. The average number of successes is 89.8% before RSRP after doing a test drive after being 100%.*

**Keywords :** *LTE, Genex Assistant 3.16, 4G Optimization, Map Info 12.0.*