

## **ABSTRACT**

*Along with the times, cellular network users are now increasing, with conditions from 2020 since the covid-19 virus outbreak attacked until now, there are even several educational institutions and companies that enforce WFH (Work From Home) activities in order to maintain and minimize the infection. the virus. This has led to an increase in demand for cellular network services in Indonesia, especially in areas where the intensity of users is quite dense and in areas that have not been reached by cellular network services. Adding a site and conducting a signal feasibility test in areas where the intensity of users is quite dense and has not been reached by cellular network services is one solution in order to expand and reach the network. In this internship report, there are several tools and materials used to support performance, namely, Maps Info Software which is used to create the path of a site that will be drive test, PHU Smart means to do a drive test, Genex software and Ms. reporting of all activities that have been carried out on a site. The optimization process carried out later is expected to achieve the KPI targets that have been previously determined by the network provider.*

**Kata Kunci :** *Mapsinfo, Drive Test, Genex Asisstant, PCI (Physical Cell Identity), RSRP (Reference Signal Received Power), SINR (Signal Interface Noise Ratio).*