ABSTRACK

Along with the times, the human need for telecommunications is also increasing, especially in the cellular sector. With the emergence of smartphones at very affordable prices, smartphone users have increased drastically. For that optimization is needed to monitor the quality of a cellular network. In the case of the BKS958 *site in the Bekasi Mutiaratomng area, there was a CrossFeeder network issue due to an optical cable placement error in the antenna sector 3 serving in the antenna sector 1 and vice versa. For the purpose of this research is optimization by changing the port cable from sectoral to BTS. So a Single Site Verification (SSV) test drive is needed to measure and analyze signal quality, for the tools used are Huawei Smartphones and Google Maps to determine the location to the site. From the results of the drive test that has been carried out, the values of several parameters have been obtained. Overall, the BKS958 Mutiaratomng site has optimal PCI (Physical Cell Identity) results and a fairly good category with a value of -15 to -10 dBm, good RSRP (Reference Signal Received Power) of -95 to -80 dBm and SINR (Signal Interference Noise). Ratio), quite good with a value of 0 to -10 dBm.*

Keywords: Drive Test, PHU Smart, PCI (Physical Cell Identity), RSRP (Reference Signal Received Power), SINR (Signal Interference Noise Ratio).