

ABSTRACT

As long as cellular technology growth in Indonesian, in this time cellular technology in CDMA 2000 1X have been spread in Indonesian segment market. Based on its generation, technology of CDMA 2000 1X constitute evolution from CDMA 2000 1X, classified as 3G cellular technology with bandwidth 1.25 Mhz. Growing and using CDMA multiple access technique in cellular communication necessities. The capacity channel of cellular system that have realized limitation, so that cause handover failure.

Handover failure due to an error due to transmission from the forward link and reverse link. At this final project only discuss about forward link with focus on the limited available channel 41 channel each BS, Receive Signal Level (RSL), which is less good review in terms of transmission, the pilot channel on internal handover type in 1 BSC.

Some of the parameters which will be discussed at the end of this task includes the Forward Link Budget, Bit Energy to Noise Ratio (E_b / N_o), E_c / I_o , Power Control on Forward Link with MAPL 146.055dB and Traffic voice. Through this research can be the cause of a failure Handover views of the transmission, which have 4 pilot pollution experienced user and voice traffic on the 7 (seven) cell site near the site fingers 1:15 km, in 1kluster in 1BSC review of the forward link direction

Keywords : *Handover, E_b/N_o , traffic, CDMA 2000 1X*