

## ABSTRACT

The handover allows the Users Equipment (UE) to stay connected while in motion. Handover is the process of automatically switching traffic channels on the EU that is being used to communicate without breaking the connection. Handover basically there are two types: soft handover and hard handover. In this research analyze WCDMA network using hard handover. WCDMA performance parameters as reference of voice call quality are RSCP,  $E_c / N_0$  and BLER. The result of this research is got good quality of RSCP, that is equal to 40.80% as many as 86 point of region obtained,  $E_c / N_0$  quality obtained from drive test is very bad, that is 97.0% as many as 106 point region obtained. The result of the BLER value shows the percentage level of demodulation becomes very good information in Rancaekek. Hard Handover failure in this study is seen from  $E_c / N_0$ , RSCP, and BLER. Although the value of  $E_c / N_0$  is very bad but RSCP in Rancaekek very well this indicates the failure of Hard Handover can still be tolerated.

Keyword : *Hard Handover, User Equipment*, WCDMA, RSCP, $E_c/N_0$ , BLER



UIN  
UNIVERSITAS ISLAM NEGERI  
SUNAN GUNUNG DJATI  
BANDUNG