

## **ABSTRACT**

Low level signal quality in RS. Hasan Sadikin area caused on that area are not well covered enough by BTS flexi whereas RS. Hasan Sadikin constitutes public area. .

This final project focused on BTS indoor planning at RS. Hasan Sadikin for Flexy Network. Indoor planning at the hospital is different with other indoor planning. Electromagnet Interference (EMI) influences from BTS to medical equipment must be considered. Indoor design must be done carefully so that interference does not affect all sensitive medical equipments.

The goal of this final project is a design of indoor BTS Flexy on RS. Hasan Sadikin. The design is drawn by using AutoCAD for all room as target coverage on RS. Hasan Sadikin. Then the result is simulated with RPS (Radio wave Propagation Simulator) software for all the buildings which has large effect of EMI, like H building, RC building, OPD building,. The design start from drive test to ensure the signal power from other BTS on this area is bad.