

## **ABSTRACT**

The area of RSUD ' 45 Kuningan which located in eastside Kuningan town and the geographical which scraggly cause area of RSUD ' 45 Kuningan doesn't covered by macro BTS of ESIA so that signal able to be accepted very weak even can be told area of blank spot. RSUD ' 45 Kuningan is represent public region mostly its visitor a lot use service of cellular so that very conducive to be design micro BTS or coverage indoor.

Design indoor network in hospital is very differing of in other public, because design in hospital is necessary to recon influence to very sensitive medical equipments. So that in hospital needed accurate scheme and study, so that Interference effect does not influence sensitive medical equipments so that result of scheme more optimal.

RSL ( Receive Signal Level) or energy accept good represent one of the target in scheme of this final project. Next target is can design BTS Indoor ESIA in RSUD ' 45 Kuningan by using Autocad to all room which becoming goals of coverage in RSUD '45 Kuningan and simulation with 3 Dimension by using RPS (Radiowave Propagation Simulator) to sensitive rooms, namely building which using many appliance of Electro Medical and the coverage in main building. The design of this BTS Indoor Esia is started from measurement by using drive test to know the level of emittance of BTS around as base that the location signal it is true low.