

ABSTRACT

Antenna is a so important part in telecommunication world. With development of *wireless* communication, antenna becomes an object that will be developed to guarantee the good communication system. Design and implementation of standard antenna were not so complicated. In cost case, cost of antenna implementation is cheaper than others communication instruments. From this reason, appeared the writer interest to implement an antenna.

In this final project, had been implemented tricola antenna. Antenna that consist of 3 horns connected parallel with angel between horns is 120° and has specification : *bandwidth* 1000 MHz at frequency range 1500 – 2500 MHz with limited VSWR 1,5 , the radiation pattern is omni directional, and the polarization approach to linier, and *gain* obtained about 6,2 dBi.

From the measuring result that had been done, obtained bandwidth with the limit of VSWR = 1,5 is 57,57 % at 1335,96 – 2415,85 MHz.. Impedance is $52,99+j1,95\ \Omega$ at Center of Frequency. The radiation pattern approach to omni directional, and the polarization approach to linier. And *gain* obtained about 8.108 dBi at center of frequency. The result obtained has nearly fulfilled the required specification although they aren't perfect.