**ABSTRACT** 

In this final project research on power divider that can be used in communication nano-

satellite is a joint project (consortium) universities and institutes in Indonesia, a power divider

which the author designed expected to be used as dividing lines between the transmitter (TX) and

receiver (RX).

Thus the authors designing the power divider 1 to 2 can be used back and forth, input to

output and output to input (s12, s13 and s21, s31) with insulation (clutch) The closest port is

expected to -20 dB, it is expected the author so that each port, both input and output do not affect

each other.

Design and realization of power divider in this Final Project in general is quite good when

compared to predetermined specifications. Insertion loss values obtained ranged in 3 dB according

to the desired specifications is 6 dB as well. VSWR values obtained are also quite good with

maksimum1,1 value, although there are touching 1,165. However, the overall value of the VSWR is

around 1.1. Insulating value obtained is also quite good. The expected value is more than 20 dB

isolation. Meanwhile, the largest isolation gained by 18.891 dB and the lowest was 18.456 dB.

Keywords: Nano Satellites, Power Divider, Receiver and Transmitter