ABSTRACK

High rainfall levels that could pose a negative impact if not be solved quickly

and precisely, so need a technology that can tell the State of the weather by using a

tool that can detect and predict if the rainfall occurs. The instrument used was a

weather radar.

On this research created a Weather Radar antenna where patch these designed

L-shaped frequency X band at 9,4 GHz, which previous research has already

designed antenna mikrostrip on frekuency X-band with linear arrangement. While

in the study designed the X-band frequency antenna so that the obtained resolution

is better, can detect particles which are smaller, higher sensitifitasnya, where the X

band frequencies are much closer on target.

In this study using the method of impedance matching, array and slot so that

it brings about the desired specifications. In the design of this antenna is substrate

materials used FR-4 epoxy with constanta elektrik 4.4. Where, the results of the

parameters – parameters of the antenna, including the following: has a VSWR ≤ 2 ,

return loss \leq -10 dB, the gain \geq 10 dBi, Bandwidth \geq 60 MHz, Radiation Pattern

Unidirectional.

Keywords: Antennas Microstrip, Weather Radar, X-band, *Array*

٧