

## **ABSTRACT**

To investigate characteristic of radio propagation, measurement were carried out at Bandung. The measurement result than will compare with ITU-R P.370-7 and ITU-R P.1546-3 models. Because ITU-R P. 370-7 model were used to planning broadcast services and ITU-R P.1546-3 model were used to planning terrestrial radiocommunication services. Both of this model will be evaluate to determine the necessary adjustments to these models in order to improve their accuracy.

In this propagation measurement, were carried out at radio broadcasting 99'ers on frequency 100 MHz. Omni directional antenna was radiated 5 kW transmit power on 94 m above ground level. And antenna receiver was used compact discone aerial antenna on 3m above ground level. Then the mean path loss obtained from propagation measurement was plotted as a function of distance and the best fit to the path loss curve was determined by using a least square regression analysis.

From evaluation and analysis to the model, we were obtain for coverage area between 1 to 15 km from transmitter. Correction factor to adjust ITU-R P.370-7 model were 6.75 dB and correction factor to adjust ITU-R P.1546-3 model were 5.42 dB.

Key word : ITU-R P. 370-7, ITU-R P. 1546-3, propagation model