ABSTRACT

Health is one of the important aspects of human life. One of them is a hearing health. Often we do not realize that the normal activities we do every day can damage our hearing health. Hearing damage either temporarily or permanently due to the noise. Sources of noise can come from motor vehicles, industrial areas or factories, airplanes, trains, public places and commercial places. To keep our environment from excessive noise by performing the measurement noise.

Accurate noise measurements can be performed with the Sound Level Meter. But the Sound Level Meter has a price that is relatively expensive and less flexible to be taken because it has a large enough size. In this final project will be made Audio Meter android application that can be used to measure the noise.

The testing process Audio Meter system's success is by counting accuracy. The accuracy of the resulting system using modeling after calibrating device reached 99,58%, while the average level of accuracy produced by similar applications was 96% with the same measurement conditions

Keywords : *Noise measurement, Audio Meter, Sound Level Meter, Android*