

## **ABSTRACT**

Water is a vital necessity for human survival. Water is used for household needs, industry, social purposes, agriculture, plantations, and even as a raw material for producing certain products. The availability of water is the main focus of this writing, as several regions in Indonesia face issues with the availability of clean water. Therefore, alternative solutions are needed when emergencies make it difficult to find water sources. This development focuses on meeting water needs during emergencies by using an Atmospheric Water Generator system.

An Atmospheric Water Generator is a device that utilizes a cooling system to capture water vapor from the environment. The cooling systems used can vary, such as compression systems and thermoelectric systems. Each of these systems will be studied in this Capstone Design writing.

Keywords: Water Availability, Emergency Situations, Atmospheric Water Generator