

## ABSTRACT

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**Key words:** The quality of the environment, hydroponics, preserve the environment

Environmental quality of life in Indonesia today began very poor, resulting from the work of human hands is poorly controlled and the times are so quick to give negative impact of environmental degradation in the surrounding natural environment. In addition, another cause is the result of the construction of a residential area less attention to the management of Green Open Space (RTH), which will also affect the environmental degradation in the surrounding area. For example; result from the depletion of existing green space in some areas in Indonesia could have an impact on increasing the temperatures in the area or better known as global warming.

The next state of the building construction itself can also Provide a significant effect on environmental quality. Both materials, the construction, operation and destruction are also fully responsible for the impact - negative impacts related to environmental quality. Eg greenhouse gas emissions, lower air quality, lack of groundwater flow and reduction of natural resources. In fact, Islam has taught that the truth of the human race plays a very important for the continuity of nature in the world, namely as a means kholifah earthly leader and caretaker and guardian. Therefore, humans have an obligation to maintain, preserve and conserve nature in the best - that should be taken advantage for the benefit of present and future generations, as the outlook for sustainability and the ban does not destroy nature mentioned in the word of Allah SWT, Surat Al-Qhashash (28) verse 77.

Departing from some of the above problems, we need a solution that would be able to overcome or at least minimize some of the problems that exist in the district of Malang. The introduction of new technological innovations hydroponics is a step in the processing of land that is deemed most appropriate to address some of the above problems and to mewadahnya need to be made of a design and Crops Research Centre in hydroponics.

Referring to the strategic issues in RPJMD (Regional Medium Term Development Plan) District of Malang, the design will be aimed at the object as an object aimed at preserving the environment by creating a forum for educational and recreational activities associated with the cultivation of hydroponics. Hydroponics is known as a proven new innovations in farming and has also been applied in developed countries Japan. Due to the demands of food production will need fairly high in the presence of limited land began, prompting the Japanese government to promote programs that hydroponic farming to farmers for food production results obtained larger, quality assured and also would require less land.