

# FLOWER CULTIVATION NURSERY

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## ABSTRACT

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In this report, an introduction to “Flower Cultivation Nursery” will be included. Moreover, the calculation according to the actual nursery and the prototype has done. The calculations include the calculation of automated open and close pneumatic roofing system, calculation of the structure of trusses in order to be structurally stable, calculation of pressure on piping- retrofit dripping system so that water can flow safely throughout the pipes and lastly the calculation of the conveyor system.

Besides that, research on flower cultivation nursery, the mechanisms required to provide a favorable and efficient nursery to plants and human, and the purpose of building the nursery are included. In addition, the AUTOCAD drawing of the some of the mechanisms design are also shown in this report.

As for the prototype part, the process of building it will be illustrated in methodology with descriptions and photos latter on in this report. Last but not least, the problems encountered when building the prototype and the improvements can be done are also stated.