

**GROWTH AND YIELD OF TURMERIC (*Curcuma longa* L.) AS AFFECTED  
BY SIZES OF POTS AND ANIMAL MANURES**

A Project Report

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**BACHELOR OF SCIENCE IN AGRICULTURE**

By

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**ABSTRACT**

This study was conducted at the College of Agriculture, Resources, and Environmental Sciences experimental garden, Central Philippine University, Jaro, Iloilo City from July 12 to December 27, 2019. This study aimed to evaluate the effect of sizes of pot and of different animal manures on the growth and yield of turmeric. The experimental treatments were composed of manures such as cow manure, goat manure and broiler chicken dung, and different sizes of pots namely: 12 x12 cm, 14 x14 cm and 16x16 cm, positive and negative control. These were laid out in a factorial randomized complete block design (RCBD) with three replications. Number of days to emergence of plantlets was not significantly ( $P>0.05$ ) affected by pot sizes and kinds of manure. On the other hand, turmeric planted in 16 x 16 inch-pots and those fertilized with goat manure were significantly ( $P<0.01$ ) higher, had more plantlets that emerged, heaviest rhizome clumps, yield and return on investment (ROI) compared to plants on the other treatments. In addition, the application of chicken manure also has significantly higher ( $P<0.01$ ) increased on the plant height and number of plantlets that emerged which is comparable to goat manure, while those fertilized with cow manure also has the significantly ( $P<0.05$ ) highest number rhizome clumps produced.